

## APPLICATION

for

## UNITED STATES LETTERS PATENT

on

## 1,2-DISUBSTITUTED-6-OXO-3-PHENYL-PIPERIDINE-3-CARBOXAMIDES AND COMBINATORIAL LIBRARIES THEREOF

Ву

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Docket No.: 109904-00074

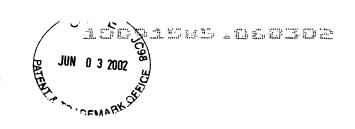
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## 1,2-DISUBSTITUTED-6-OXO-3-PHENYL-PIPERIDINE-3-CARBOXAMIDES.

## AND COMBINATORIAL LIBRARIES THEREOF

#### FIELD OF THE INVENTION

**[0001]** The present invention relates generally to the synthesis of compounds comprising piperidine-3-carboxamides. In one embodiment, the invention provides novel 1,2-disubstituted-6-oxo-3-phenyl-piperidine-3-carboxamide derivative compounds as well as novel combinatorial libraries comprised of such compounds.

#### BACKGROUND INFORMATION

The process of discovering new therapeutically active compounds for a [0002] given indication involves the screening of all compounds from available compound collections. From the compounds tested, one or more structures are selected as a promising lead. A large number of related analogs are then synthesized in order to develop a structure-activity relationship and select one or With traditional "one-at-a-time" synthesis and more optimal compounds. biological testing of analogs, this optimization process is long and labor intensive. Adding significant numbers of new structures to the compound collections used in the initial screening step of the discovery and optimization process cannot be accomplished with traditional "one-at-a-time" synthesis methods, except over a time frame of years or even decades. Faster methods are needed that allow for the preparation of up to thousands of related compounds in a matter of days or a few weeks. This need is particularly evident when it comes to synthesizing more complex compounds, such as piperidine-3-carboxamide derivative compounds.

[0003] Combinatorial approaches have been extended to "organic," or non-peptide, libraries. However, the libraries to date contain compounds of limited

diversity and complexity. A need therefore exists to develop more complex libraries based on medicinal compounds which would need less time and effort in the synthesis and testing required to bring an organic pharmaceutical product to fruition. In short, improved methods for generating therapeutically useful compounds, such as piperidine-3-carboxamide derivatives, are desired.

**[0004]** Piperidine and carboxamide derivative compounds have been the subject of investigation in a number of different biological areas. For example, piperidine-3-carboxamides have been proposed or used as platelet aggregation inhibitors (Zheng, et al., "Design and synthesis of piperidine-3-carboxamides as human platelet aggregation inhibitor", (1995), Journal of Medicinal Chemistry, vol. 38, No. 1, pp. 180-188) and piperidine derivatives have been proposed as medicaments with rennin inhibiting activity (U.S. Patent No. 6,150,526 issued on November 21, 2000 and U. S. Patent No. 6,051,712 issued on April 18, 2000 both by to Binggeli, et al.)

This invention satisfies the above discussed need and provides related advantages as well. The present invention overcomes the known limitations to classical serial organic synthesis of piperidine-3-carboxamide derivatives, for example, as well as the shortcomings of combinatorial chemistry related to piperidine-3-carboxamide derivatives. The present invention allows for rapid generation of large diverse libraries of complex piperidine-3-carboxamide derivatives as discrete molecules. The present invention can utilize a readily available pool of building blocks that can be incorporated into the various regions of the molecule. Furthermore, the method of making the present invention allows for the use of building blocks that contain a wide range of diverse functionality. Such building blocks can provide combinatorial libraries that consist of large numbers as well as combinatorial libraries that are extremely diverse with respect to the functionality contained within those libraries. The present invention combines the techniques of solid-phase synthesis of piperidine-3-carboxamide derivatives and the general techniques of synthesis of combinatorial libraries to prepare highly diverse new piperidine-3-carboxamide derivative compounds.

## SUMMARY OF THE INVENTION

**[0006]** The present invention relates to novel piperidine-3-carboxamide derivative compounds of the following formula:

wherein

[0007] X is selected from the group consisting of N and O;

**[0008]** R<sub>1</sub> is selected from the group consisting of a substituted aromatic heterocyclic ring, C<sub>3</sub>-C<sub>12</sub> substituted alicycle and substituted phenyl;

**[0009]** R<sub>2</sub> is selected from the group consisting of H; -OH; C<sub>1</sub> to C<sub>7</sub> alkoxy; C<sub>1</sub> to C<sub>7</sub> substituted alkoxy; C<sub>2</sub>-C<sub>7</sub> alkenyl; C<sub>1</sub> to C<sub>7</sub> substituted alkenyl; C<sub>2</sub> to C<sub>7</sub> alkynyl; C<sub>2</sub> to C<sub>7</sub> substituted alkynyl; unsubstituted phenyl; naphthyl; substituted phenoxy; C<sub>2</sub> to C<sub>7</sub> heterocyclic ring; substituted C<sub>2</sub> to C<sub>7</sub> heterocyclic ring; substituted cyclic C<sub>2</sub> to C<sub>7</sub> alkylene; C<sub>1</sub> to C<sub>7</sub> alkyl; C<sub>1</sub> to C<sub>7</sub> substituted alkyl; C<sub>3</sub> to C<sub>7</sub> cycloalkyl; C<sub>3</sub> to C<sub>7</sub> substituted cycloalkyl; C<sub>1</sub> to C<sub>7</sub> alkoxy; halo; C<sub>1</sub> to C<sub>10</sub> alkylthio; C<sub>1</sub> to C<sub>10</sub> substituted alkylthio; C<sub>1</sub> to C<sub>10</sub> alkylnitrile; a C<sub>7</sub> to C<sub>18</sub> substituted phenylalkyl; substituted phenyl;

**[0010]** R<sub>3</sub> and R<sub>4</sub> are independently selected from the group consisting of – OH; H; C<sub>1</sub> to C<sub>6</sub> alkyl; C<sub>1</sub> to C<sub>7</sub> substituted alkyl; C<sub>2</sub> to C<sub>7</sub> alkenyl; C<sub>1</sub> to C<sub>7</sub> alkoxy; C<sub>1</sub> to C<sub>7</sub> substituted alkoxy; C<sub>3</sub> to C<sub>7</sub> cycloalkyl; C<sub>3</sub> to C<sub>7</sub> substituted cycloalkyl; C<sub>1</sub>

to  $C_{10}$  alkylthio;  $C_1$  to  $C_{10}$  alkylnitrile;  $C_1$  to  $C_4$  alcohol; substituted phenyl;  $C_1$  to  $C_6$  substituted alkyl;  $C_1$  to  $C_7$  alkoxy;  $C_3$  to  $C_7$  cycloalkyl; and  $C_3$  to  $C_7$  substituted cycloalkyl;  $C_2$  to  $C_7$  heterocyclic ring;  $C_2$  to  $C_7$  substituted heterocyclic ring; phenoxy; and substituted phenoxy,

[0011] R<sub>5</sub> is selected from the group consisting of H and NH<sub>2</sub>, and

**[0012]**  $R_6$  is selected from the group consisting of phenyl, substituted phenyl,  $C_2$  to  $C_7$  heterocyclic ring, and substituted  $C_2$  to  $C_7$  heterocyclic ring.

**[0013]** The invention further relates to combinatorial libraries containing two or more such compounds, as well as methods of preparing piperidine-3-carboxamide derivative compounds.

## BRIEF DESCRIPTION OF THE DRAWING

**[0014]** Figures 1 and 2 show two parts of a scheme for the combinatorial synthesis of piperidine-3-carboxamide derivative compounds.

**[0015]** Figure 3 shows a scheme for the production of (Substituted Phenyl)-glutaric anhydrides.

## DETAILED DESCRIPTION OF THE INVENTION

**[0016]** The present invention provides compounds and combinatorial libraries of compounds of the formula:

wherein:

[0017] X is selected from the group consisting of N and O;

**[0018]**  $R_1$  is selected from the group consisting of a substituted aromatic heterocyclic ring,  $C_3$ - $C_{12}$  substituted alicycle and substituted phenyl;

**[0019]** R<sub>2</sub> is selected from the group consisting of H; -OH; C<sub>1</sub> to C<sub>7</sub> alkoxy; C<sub>1</sub> to C<sub>7</sub> substituted alkoxy; C<sub>2</sub>-C<sub>7</sub> alkenyl; C<sub>1</sub> to C<sub>7</sub> substituted alkenyl; C<sub>2</sub> to C<sub>7</sub> alkynyl; C<sub>2</sub> to C<sub>7</sub> substituted alkynyl; unsubstituted phenyl; naphthyl; substituted phenoxy; C<sub>2</sub> to C<sub>7</sub> heterocyclic ring; substituted C<sub>2</sub> to C<sub>7</sub> heterocyclic ring; substituted cyclic C<sub>2</sub> to C<sub>7</sub> alkylene; C<sub>1</sub> to C<sub>7</sub> alkyl; C<sub>1</sub> to C<sub>7</sub> substituted alkyl; C<sub>3</sub> to C<sub>7</sub> cycloalkyl; C<sub>3</sub> to C<sub>7</sub> substituted cycloalkyl; C<sub>1</sub> to C<sub>7</sub> alkoxy; halo; C<sub>1</sub> to C<sub>10</sub> alkylthio; C<sub>1</sub> to C<sub>10</sub> substituted alkylthio; C<sub>1</sub> to C<sub>10</sub> alkylnitrile; a C<sub>7</sub> to C<sub>18</sub> substituted phenylalkyl; substituted phenyl;

**[0020]** R<sub>3</sub> and R<sub>4</sub> are independently selected from the group consisting of – OH; H; C<sub>1</sub> to C<sub>6</sub> alkyl; C<sub>1</sub> to C<sub>7</sub> substituted alkyl; C<sub>2</sub> to C<sub>7</sub> alkenyl; C<sub>1</sub> to C<sub>7</sub> alkoxy; C<sub>1</sub> to C<sub>7</sub> substituted alkoxy; C<sub>3</sub> to C<sub>7</sub> cycloalkyl; C<sub>3</sub> to C<sub>7</sub> substituted cycloalkyl; C<sub>1</sub> to C<sub>10</sub> alkylthio; C<sub>1</sub> to C<sub>10</sub> alkylnitrile; C<sub>1</sub> to C<sub>4</sub> alcohol; substituted phenyl; C<sub>1</sub> to C<sub>6</sub> substituted alkyl; C<sub>1</sub> to C<sub>7</sub> alkoxy; C<sub>3</sub> to C<sub>7</sub> cycloalkyl; and C<sub>3</sub> to C<sub>7</sub> substituted cycloalkyl; C<sub>2</sub> to C<sub>7</sub> heterocyclic ring; C<sub>2</sub> to C<sub>7</sub> substituted heterocyclic ring; phenoxy; and substituted phenoxy,

[0021] R<sub>5</sub> is selected from the group consisting of H and NH<sub>2</sub> and

**[0022]**  $R_6$  is selected from the group consisting of phenyl, substituted phenyl,  $C_2$  to  $C_7$  heterocyclic ring, and substituted  $C_2$  to  $C_7$  heterocyclic ring.

**[0023]** The invention also provides methods of preparing piperidine-3-carboxamide derivative compounds and combinatorial libraries. In one method, as shown in Figures 1 and 2, such compounds can be prepared by a process comprising:

[0024] preparing a resin bound aldehyde or diamine,

**[0025]** reacting said resin bound aldehyde with an amine, or said resin bound diamine with an aldehyde, to form a resin bound imine,

[0026] cyclizing said resin bound imine to produce a resin bound carboxylic acid,

[0027] acylating said resin bound carboxylic acid, and

[0028] cleaving and extracting said piperidine-3-carboxamide derivative compound from said resin.

[0029] Examples of aldehydes which are useful in the above reaction include but are not limited to 4-hydroxybenzaldehyde, 3-hydroxybenzaldehyde, 2hydroxy-5-methylbenzaldehyde, 3,5-dimethyl-4-hydroxybenzaldehyde, 2hydroxy-4-methoxybenzaldehyde, 3-ethoxysalicylaldehyde, 2-hydroxy-1naphthaldehyde. 5-bromosalicylaldehyde, cyclopropanecarboxaldehyde, furaldehyde, benzaldehyde, 2-thiophenecarboxaldehyde, 3thiophenecarboxaldehyde, P-tolualdehyde, 4,5-dimethyl-2-furancarboxaldehyde, P-anisaldehyde, 5-methylfurfural, O-tolualdehyde, 2,4,5-trimethylbenzaldehyde, 5-methyl-2-thiophenecarboxaldehyde, piperonal, (difluoromethyoxy)benzaldehyde, 5-bromo-2-furaldehyde. 4biphenylcarboxaldehyde and 5-bromo-2-thiophenecarboxaldehyde.

Examples of diamines and amines useful in the above reaction when [0030] producing a resin bound diamine or reaction an aldehyde with an amine, include but are not limited to methylamine, ethylamine, propargylamine, cyclopropylamine, allylamine, propylamine, 3-aminopropionitrile, isobutylamine, cyclopentylamine, cyclohexylamine, hexylamine, N-acetylethylenediamine, 3ethoxypropylamine, 4-chlorobenzylamine. 1-(3-aminopropyl)-2-pyrrolidinone. tryptamine, 3-(trifluoromethyl)benzylamine, 2,4-diclorophenethylamine, 4-amino-1-benzylpiperidine, benzylamine, ethylenediamine, 1,3-diaminopropane, 1,4diaminobutane, trans-1,2-cyclohexanediamine, trans-1,4-diaminocyclohexane, 2,2-thiobis(ethylamine), and N.N-Bis(3-aminopropyl)methylamine.

**[0031]** Examples of amines useful in the above reaction when acylating the resin bound carboxylic acid include but are not limited to nipecotamide, 1-(2-aminoethyl)pyrrolidine, pyrrolidine, histamine, cyclopentylamine, allylamine, 2-methoxyethylamine, cyclohexylamine, 1-methylpiperazine, tetrahydrofurfurylamine, 4-methylbenzylamine, 3-fluorobenzylamine, 4-fluorobenzylamine, 1-(3-aminopropyl)imidazole, cyclopropylamine, propylamine, ethanolamine, 2-thiophenemethylamine, n,n-dimethyl-1,3-propanediamine, 1-(2-

aminoethyl)piperidine, isoamylamine, 3-ethoxypropylamine, (r)-(-)-1-3-(methylthio)propylamine, cyclohexylethylamine, neopentylamine, 3-amino-1-propanol, 2-ethoxyethylamine, 2,6isobutylamine, dimethylpiperazine, propargylamine, thiophene-2-ethylamine, butylamine, 2-Pamino-1-methoxypropane, 3-aminopropionitrile, 3-methylpiperidine, anisidine, 1,2,3,6-tetrahydropyridine, 2,6-dimethylmorpholine, methoxyamine hydrochloride, n-ethylpiperazine, water, and hydroxylamine.

**[0032]** When the above-described compounds include one or more chiral centers, the stereochemistry of such chiral centers can independently be in the R or S configuration, or a mixture of the two. The chiral centers can be further designated as R or S or R,S or d,D, I,L or d,I, D,L.

**[0033]** In the above formula , the term " $C_1$  to  $C_7$  alkyl" denotes such radicals as methyl, ethyl, n-propyl, isopropyl, n-butyl, iso-butyl, sec-butyl, tert-butyl, amyl, tert-amyl, hexyl and the like. The preferred " $C_1$  to  $C_7$  alkyl" groups are methyl, iso-butyl, sec-butyl and iso-propyl.

The term "C<sub>1</sub> to C<sub>7</sub> substituted alkyl," denotes that the above C<sub>1</sub> to C<sub>7</sub> [0034] alkyl groups are substituted by one or more, and preferably one or two, halogen, hydroxy, protected hydroxy, oxo, protected oxo, C<sub>3</sub> to C<sub>7</sub> cycloalkyl, naphthyl, amino, protected (monosubstituted)amino, amino, (monosubstituted)amino, (disubstituted)amino, guanidino, protected guanidino, heterocyclic ring, substituted heterocyclic ring, imidazolyl, indolyl, pyrrolidinyl, C<sub>1</sub> to  $C_7$  alkoxy,  $C_1$  to  $C_7$  acyl,  $C_1$  to  $C_7$  acyloxy, nitro, carboxy, protected carboxy, carbamoyl, carboxamide, protected carboxamide, N-(C<sub>1</sub> to C<sub>6</sub> alkyl)carboxamide, protected N-(C<sub>1</sub> to C<sub>6</sub> alkyl)carboxamide, N,N-di(C<sub>1</sub> to C<sub>6</sub> alkyl)carboxamide, cyano, methylsulfonylamino, thiol, C<sub>1</sub> to C<sub>4</sub> alkylthio or C<sub>1</sub> to C<sub>4</sub> alkylsulfonyl groups. The substituted alkyl groups may be substituted once or more, and preferably once or twice, with the same or with different substituents.

**[0035]** Examples of the above substituted alkyl groups include the 2-oxo-prop-1-yl, 3-oxo-but-1-yl, cyanomethyl, nitromethyl, chloromethyl, hydroxymethyl, tetrahydropyranyloxymethyl, trityloxymethyl, propionyloxymethyl, amino, methylamino, aminomethyl, dimethylamino, carboxymethyl,

allyloxycarbonylmethyl, allyloxycarbonylaminomethyl, methoxymethyl, ethoxymethyl, t-butoxymethyl, acetoxymethyl, chloromethyl, bromomethyl, iodomethyl, trifluoromethyl, 6-hydroxyhexyl, 2,4-dichloro(n-butyl), 2-aminopropyl, 1-chloroethyl, 2-chloroethyl, 1- bromoethyl, 2-chloroethyl, 1-fluoroethyl, 2-fluoroethyl, 1- iodoethyl, 2-iodoethyl, 1-chloropropyl, 2-chloropropyl, 3-chloropropyl, 1-bromopropyl, 2-bromopropyl, 3-bromopropyl, 1-fluoropropyl, 2-fluoropropyl, 3-fluoropropyl, 1- iodopropyl, 2-iodopropyl, 3-iodopropyl, 2-aminoethyl, 1- aminoethyl, N-benzoyl-2-aminoethyl, N-acetyl-2-aminoethyl, N-benzoyl-1-aminoethyl, N-acetyl-1-aminoethyl, and the like.

**[0036]** The term " $C_1$  to  $C_7$  alkoxy" as used herein denotes groups such as methoxy, ethoxy, n-propoxy, isopropoxy, n-butoxy, t-butoxy and like groups. A preferred alkoxy is methoxy. The term " $C_1$  to  $C_7$  substituted alkoxy" means the alkyl portion of the alkoxy can be substituted in the same manner as in relation to  $C_1$  to  $C_7$  substituted alkyl. Similalry, the term " $C_1$  to  $C_7$  phenylalkoxy" as used herein means " $C_1$  to  $C_7$  alkoxy" bonded to a phenyl radical.

**[0037]** The substituent term " $C_3$  to  $C_7$  cycloalkyl" includes the cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl or cycloheptyl rings. The substituent term " $C_3$  to  $C_7$  substituted cycloalkyl" indicates the above cycloalkyl rings substituted by one or two halogen, hydroxy, protected hydroxy,  $C_1$  to  $C_4$  alkylthio,  $C_1$  to  $C_4$  alkylsulfoxide,  $C_1$  to  $C_4$  alkylsulfonyl,  $C_1$  to  $C_4$  substituted alkylsulfoxide,  $C_1$  to  $C_4$  substituted alkylsulfonyl,  $C_1$  to  $C_6$  alkyl,  $C_1$  to  $C_7$  alkoxy,  $C_1$  to  $C_6$  substituted alkyl,  $C_1$  to  $C_7$  alkoxy, oxo, protected oxo, (monosubstituted)amino, (disubstituted)amino, trifluoromethyl, carboxy, protected carboxy, phenyl, substituted phenyl, phenylthio, phenylsulfoxide, phenylsulfonyl, amino, or protected amino groups.

**[0038]** The term "substituted phenyl" specifies a phenyl group substituted with one or more, and preferably one or two, moieties chosen from the groups consisting of halogen, hydroxy, protected hydroxy, cyano, nitro,  $C_1$  to  $C_6$  alkyl,  $C_1$  to  $C_6$  substituted alkyl,  $C_1$  to  $C_7$  alkoxy,  $C_1$  to  $C_7$  substituted alkoxy,  $C_1$  to  $C_7$  acyl,  $C_1$  to  $C_7$  substituted acyl,  $C_1$  to  $C_7$  alkylthio,  $C_1$  to  $C_7$  acyloxy, carboxy, protected carboxy, carboxymethyl, protected

hydroxymethyl, amino, protected amino, (monosubstituted)amino, protected (monosubstituted)amino, (disubstituted)amino, carboxamide, protected carboxamide, N-( $C_1$  to  $C_6$  alkyl)carboxamide, protected N-( $C_1$  to  $C_6$  alkyl)carboxamide, trifluoromethyl, N-(( $C_1$  to  $C_6$  alkyl)sulfonyl)amino, – (phenylsulfonyl)amino or phenyl, wherein the phenyl is substituted or unsubstituted, such that, for example, a biphenyl results.

Examples of the term "substituted phenyl" includes a mono- or [0039] di(halo)phenyl group such as 2, 3 or 4-chlorophenyl, 2,6-dichlorophenyl, 2,5dichlorophenyl, 3,4-dichlorophenyl, 2, 3 or 4-bromophenyl, 3,4-dibromophenyl, 3chloro-4-fluorophenyl, 2, 3 or 4-fluorophenyl and the like; a mono or di(hydroxy)phenyl group such as 2, 3 or 4-hydroxyphenyl, 2,4-dihydroxyphenyl, the protected-hydroxy derivatives thereof and the like; a nitrophenyl group such as 2, 3 or 4-nitrophenyl; a cyanophenyl group, for example, 2, 3 or 4cyanophenyl; a mono- or di(alkyl)phenyl group such as 2, 3 or 4-methylphenyl, 2,4-dimethylphenyl, 2, 3 or 4-(iso-propyl)phenyl, 2, 3 or 4-ethylphenyl, 2, 3 or 4-(n-propyl)phenyl and the like; a mono or di(alkoxyl)phenyl group, for example, 2,6-dimethoxyphenyl, 2, 3 or 4-methoxyphenyl, 2, 3 or 4-ethoxyphenyl, 2, 3 or 4-(isopropoxy)phenyl, 2, 3 or 4-(t-butoxy)phenyl, 3-ethoxy-4-methoxyphenyl and the like; 2, 3 or 4-trifluoromethylphenyl; a mono- or dicarboxyphenyl or (protected carboxy)phenyl group such as 2, 3 or 4-carboxyphenyl or 2,4-di(protected di(hydroxymethyl)phenyl (protected carboxy)phenyl; а mono-or hydroxymethyl)phenyl such as 2, 3, or 4-(protected hydroxymethyl)phenyl or 3,4di(hydroxymethyl)phenyl; a mono- or di(aminomethyl)phenyl or (protected aminomethyl)phenyl such as 2, 3 or 4-(aminomethyl)phenyl or 2,4-(protected aminomethyl)phenyl; or a mono- or di(N-(methylsulfonylamino))phenyl such as 2, 3 or 4-(N-(methylsulfonylamino))phenyl. Also, the term "substituted phenyl" represents disubstituted phenyl groups wherein the substituents are different, for example, 3-methyl-4-hydroxyphenyl, 3-chloro-4-hydroxyphenyl, 2-methoxy-4bromophenyl, 4-ethyl-2-hydroxyphenyl, 3-hydroxy-4-nitrophenyl, 2-hydroxy 4chlorophenyl and the like.

[0040] The terms "halo" and "halogen" refer to the fluoro, chloro, bromo or

iodo atoms. There can be one or more halogen, which are the same or different. Preferred halogens are chloro and fluoro.

**[0041]** The term "substituted amino" refers to an amino group with one substituent chosen from the group consisting of phenyl, substituted phenyl,  $C_1$  to  $C_6$  alkyl,  $C_1$  to  $C_6$  substituted alkyl,  $C_1$  to  $C_7$  acyl,  $C_1$  to  $C_7$  substituted acyl,  $C_2$  to  $C_7$  alkenyl,  $C_2$  to  $C_7$  substituted alkenyl,  $C_2$  to  $C_7$  alkynyl,  $C_2$  to  $C_7$  substituted alkynyl,  $C_7$  to  $C_{12}$  phenylalkyl,  $C_7$  to  $C_{12}$  substituted phenylalkyl and heterocyclic ring. The substituted amino can additionally have an amino-protecting group as encompassed by the term "protected substituted amino."

**[0042]** The term "(disubstituted)amino" refers to an amino group with two substituents chosen from the group consisting of phenyl, substituted phenyl,  $C_1$  to  $C_6$  alkyl,  $C_1$  to  $C_6$  substituted alkyl,  $C_1$  to  $C_7$  acyl,  $C_2$  to  $C_7$  alkenyl,  $C_2$  to  $C_7$  alkynyl,  $C_7$  to  $C_{12}$  phenylalkyl, and  $C_7$  to  $C_{12}$  substituted phenylalkyl. The two substituents can be the same or different.

**[0043]** The term " $C_1$  to  $C_4$  alkylthio" refers to sulfide groups such as methylthio, ethylthio, n-propylthio, isopropylthio, n-butylthio, t-butylthio and like groups.

**[0044]** The term " $C_1$  to  $C_4$  substituted alkylthio," denotes that the  $C_1$  to  $C_4$  alkyl portion of this group may be substituted as described above in relation to "substituted alkyl."

**[0045]** The term "phenoxy" denotes a phenyl bonded to an oxygen atom, wherein the binding to the rest of the molecule is through the oxygen atom. The term "substituted phenoxy" specifies a phenoxy group substituted with one or more, and preferably one or two, moieties chosen from the groups consisting of halogen, hydroxy, protected hydroxy, cyano, nitro, C<sub>1</sub> to C<sub>12</sub> alkyl, C<sub>1</sub> to C<sub>12</sub> alkoxy, C<sub>1</sub> to C<sub>12</sub> substituted alkoxy, C<sub>1</sub> to C<sub>12</sub> acyl, C<sub>1</sub> to C<sub>12</sub> acyloxy, carboxy, protected carboxy, carboxymethyl, protected carboxymethyl, hydroxymethyl, protected hydroxymethyl, amino, protected amino, (monosubstituted)amino, protected (monosubstituted)amino, (disubstituted)amino, carboxamide, protected carboxamide, N-(C<sub>1</sub> to C<sub>12</sub> alkyl)carboxamide, protected N-(C<sub>1</sub> to C<sub>12</sub> alkyl)carboxamide, trifluoromethyl, N-((C<sub>1</sub> to

C<sub>12</sub> alkyl)sulfonyl)amino and N- (phenylsulfonyl)amino.

The terms "C<sub>7</sub> to C<sub>18</sub> substituted phenylalkyl" and "C<sub>1</sub> to C<sub>12</sub> substituted heterocycloalkyl" denote a  $C_7$  to  $C_{18}$  phenylalkyl group or  $C_1$  to  $C_{12}$ heterocycloalkyl substituted (on the alkyl or, where applicable, phenyl or heterocyclic portion) with one or more, and preferably one or two, groups chosen from halogen, hydroxy, protected hydroxy, oxo, protected oxo, amino, protected amino, substituted amino, protected substituted amino, (disubstituted)amino, guanidino, protected guanidino, heterocyclic ring, substituted heterocyclic ring, C<sub>1</sub> to C<sub>12</sub> alkyl, C<sub>1</sub> to C<sub>12</sub> substituted alkyl, C<sub>1</sub> to C<sub>12</sub> alkoxy, C<sub>1</sub> to C<sub>12</sub> substituted alkoxy, C<sub>1</sub> to C<sub>12</sub> acyl, C<sub>1</sub> to C<sub>12</sub> substituted acyl, C<sub>1</sub> to C<sub>12</sub> acyloxy, nitro, carboxy, protected carboxy, carbamoyl, carboxamide, protected carboxamide, N-(C1 to C12 alkyl)carboxamide, protected N-(C1 to C12 alkyl)carboxamide, N, N-(C1 to C12 dialkyl)carboxamide, cyano, N-(C1 to C12 alkylsulfonyl)amino, thiol, C1 to C10 alkylthio, C1 to C10 alkylsulfonyl groups; and/or the phenyl group may be substituted with one or more, and preferably one or two, substituents chosen from halogen, hydroxy, protected hydroxy, cyano, nitro, C<sub>1</sub> to C<sub>12</sub> alkyl, C<sub>1</sub> to C<sub>12</sub> substituted alkyl, C<sub>1</sub> to C<sub>12</sub> alkoxy, C<sub>1</sub> to C<sub>12</sub> substituted alkoxy, C<sub>1</sub> to C<sub>12</sub> acyl, C<sub>1</sub> to  $C_{12}$  substituted acyl,  $C_1$  to  $C_{12}$  acyloxy, carboxy, protected carboxy, carboxymethyl, hydroxymethyl, protected protected carboxymethyl, hydroxymethyl, amino, protected amino, (monosubstituted)amino, protected (disubstituted)amino, carboxamide, protected (monosubstituted)amino, carboxamide, N-(C<sub>1</sub> to C<sub>12</sub> alkyl)carboxamide, protected N-(C<sub>1</sub> to C<sub>12</sub> alkyl)carboxamide, N, N-di(C<sub>1</sub> to C<sub>12</sub> alkyl)carboxamide, trifluoromethyl, N-((C<sub>1</sub> to C<sub>12</sub> alkyl)sulfonyl)amino, N-(phenylsulfonyl)amino, cyclic C<sub>2</sub> to C<sub>12</sub> alkylene or a phenyl group, substituted or unsubstituted, for a resulting biphenyl group. The substituted alkyl, phenyl or heterocyclic groups may be substituted with one or more, and preferably one or two, substituents which can be the same or different. Examples of the term "C<sub>7</sub> to C<sub>18</sub> substituted phenylalkyl" include groups [0047] such as 2-phenyl-1-chloroethyl, 2-(4-methoxyphenyl)ethyl, 4-(2,6-dihydroxy phenyl)n-hexyl, 2-(5-cyano-3-methoxyphenyl)n-pentyl, 3-(2,6-dimethylphenyl)npropyl, 4-chloro-3-aminobenzyl, 6-(4-methoxyphenyl)-3-carboxy(n-hexyl), 5-(4aminomethylphenyl)- 3-(aminomethyl)n-pentyl, 5-phenyl-3-oxo-n-pent-1-yl and the like.

**[0048]** The term " $C_7$  to  $C_{18}$  phenylalkylene" specifies a  $C_7$  to  $C_{18}$  phenylalkyl, as defined above, where the phenylalkyl radical is bonded at two different positions connecting together two separate additional groups. The definition includes groups of the formula: -phenyl-alkyl-, -alkyl-phenyl- and -alkyl-phenyl-alkyl-. Substitutions on the phenyl ring can be 1,2, 1,3 or 1,4.

**[0049]**  $C_7$  to  $C_{18}$  phenylalkylenes include, for example, 1,4-tolylene and 1,3-xylylene.

**[0050]** The terms "cyclic  $C_2$  to  $C_7$  alkylene," "substituted cyclic  $C_2$  to  $C_7$  alkylene," "cyclic  $C_2$  to  $C_7$  heteroalkylene," and "substituted cyclic  $C_2$  to  $C_7$  heteroalkylene," defines such a cyclic group bonded ("fused") to the phenyl radical resulting in a bicyclic ring system. The cyclic group may be saturated or contain one or two double bonds. Furthermore, the cyclic group may have one or two methylene or methine groups replaced by one or two oxygen, nitrogen or sulfur atoms which are the cyclic  $C_2$  to  $C_7$  heteroalkylene.

**[0051]** The cyclic alkylene or heteroalkylene group may be substituted once or twice by the same or different substituents which, if appropriate, can be connected to another part of the compound (e.g., alkylene) selected from the group consisting of the following moieties: hydroxy, protected hydroxy, carboxy, protected carboxy, oxo, protected oxo, C<sub>1</sub> to C<sub>4</sub> acyloxy, formyl, C<sub>1</sub> to C<sub>12</sub> acyl, C<sub>1</sub> to C<sub>12</sub> alkyl, C<sub>1</sub> to C<sub>7</sub> alkoxy, C<sub>1</sub> to C<sub>10</sub> alkylthio, C<sub>1</sub> to C<sub>10</sub> alkylsulfoxide, C<sub>1</sub> to C<sub>10</sub> alkylsulfonyl, halo, amino, protected amino, substituted amino, protected substituted amino, (disubstituted)amino, hydroxymethyl or a protected hydroxymethyl.

**[0052]** The cyclic alkylene or heteroalkylene group fused onto the benzene radical can contain two to ten ring members, but it preferably contains three to six members. Examples of such saturated cyclic groups are when the resultant bicyclic ring system is 2,3-dihydro-indanyl and a tetralin ring. When the cyclic groups are unsaturated, examples occur when the resultant bicyclic ring system is a naphthyl ring or indolyl. Examples of fused cyclic groups which each contain

one nitrogen atom and one or more double bond, preferably one or two double bonds, are when the benzene radical is fused to a pyridino, pyrano, pyrrolo, pyridinyl, dihydropyrrolo, or dihydropyridinyl ring. Examples of fused cyclic groups which each contain one oxygen atom and one or two double bonds are when the benzene radical ring is fused to a furo, pyrano, dihydrofurano, or dihydropyrano ring. Examples of fused cyclic groups which each have one sulfur atom and contain one or two double bonds are when the benzene radical is fused to a thieno, thiopyrano, dihydrothieno or dihydrothiopyrano ring. Examples of cyclic groups which contain two heteroatoms selected from sulfur and nitrogen and one or two double bonds are when the benzene radical ring is fused to a thiazolo, isothiazolo, dihydrothiazolo or dihydroisothiazolo ring. Examples of cyclic groups which contain two heteroatoms selected from oxygen and nitrogen and one or two double bonds are when the benzene ring is fused to an oxazolo, isoxazolo, dihydrooxazolo or dihydroisoxazolo ring. Examples of cyclic groups which contain two nitrogen heteroatoms and one or two double bonds occur when the benzene ring is fused to a pyrazolo, imidazolo, dihydropyrazolo or dihydroimidazolo ring or pyrazinyl.

[0053] The term "heterocycle" or "heterocyclic ring" denotes optionally substituted five-membered to eight-membered rings that have 1 to 4 heteroatoms, such as oxygen, sulfur and/or nitrogen, in particular nitrogen, either alone or in conjunction with sulfur or oxygen ring atoms. These five-membered to eight-membered rings may be saturated, fully unsaturated or partially unsaturated, with fully saturated rings being preferred. Preferred heterocyclic rings include morpholino, piperidinyl, piperazinyl, 2-amino-imidazoyl, tetrahydrofurano, pyrrolo, tetrahydrothiophen-yl, hexylmethyleneimino and heptylmethyleneimino.

**[0054]** The term "substituted heterocycle" or "substituted heterocyclic ring" means the above-described heterocyclic ring is substituted with, for example, one or more, and preferably one or two, substituents which are the same or different which substituents can be halogen, hydroxy, protected hydroxy, cyano, nitro, C<sub>1</sub> to C<sub>12</sub> alkyl, C<sub>1</sub> to C<sub>12</sub> alkoxy, C<sub>1</sub> to C<sub>12</sub> substituted alkoxy, C<sub>1</sub> to C<sub>12</sub> acyl,

 $C_1$  to  $C_{12}$  acyloxy, carboxy, protected carboxy, carboxymethyl, protected carboxymethyl, hydroxymethyl, protected hydroxymethyl, amino, protected amino, substituted amino, protected substituted amino, (disubstituted)amino carboxamide, protected carboxamide, N-( $C_1$  to  $C_{12}$  alkyl)carboxamide, protected N-( $C_1$  to  $C_{12}$  alkyl)carboxamide, N, N-di( $C_1$  to  $C_{12}$  alkyl)carboxamide, trifluoromethyl, N-(( $C_1$  to  $C_{12}$  alkyl)sulfonyl)amino, N-(phenylsulfonyl)amino, heterocycle or substituted heterocycle groups.

One or more of the compounds of the invention, even within a given [0055] library, may be present as a salt. The term "salt" encompasses those salts that form with the carboxylate anions and amine nitrogens and include salts formed with the organic and inorganic anions and cations discussed below. Furthermore, the term includes salts that form by standard acid-base reactions with basic groups (such as amino groups) and organic or inorganic acids. Such acids include hydrochloric, sulfuric, phosphoric, acetic, succinic, citric, lactic, maleic, fumaric, palmitic, cholic, pamoic, mucic, D-glutamic, D-camphoric, methanesulfonic, salicyclic. stearic. glutaric, phthalic, tartaric, lauric, benzenesulfonic, sorbic, picric, benzoic, cinnamic, and like acids.

The term "organic or inorganic cation" refers to counter-ions for the carboxylate anion of a carboxylate salt. The counter-ions are chosen from the alkali and alkaline earth metals, (such as lithium, sodium, potassium, barium, aluminum and calcium); ammonium and mono-, di- and tri-alkyl amines such as such as cyclohexylamine; and the organic cations, trimethylamine, bis(2-2-hydroxyethylammonium, dibenzylammonium, benzylammonium, phenylethylbenzylammonium, hydroxyethyl)ammonium, for example, dibenzylethylenediammonium, and like cations. See. "Pharmaceutical Salts," Berge et al., J. Pharm. Sci., 66:1-19 (1977). cations encompassed by the above term include the protonated form of procaine, quinine and N-methylglucosamine, and the protonated forms of basic amino acids such as glycine, ornithine, histidine, phenylglycine, lysine and arginine. Furthermore, any zwitterionic form of the instant compounds formed by a carboxylic acid and an amino group is referred to by this term. For example, a cation for a carboxylate anion will exist when  $R_2$  or  $R_3$  is substituted with a (quaternary ammonium)methyl group. A preferred cation for the carboxylate anion is the sodium cation.

**[0057]** The compounds of the invention can also exist as solvates and hydrates. Thus, these compounds may crystallize with, for example, waters of hydration, or one, a number of, or any fraction thereof of molecules of the mother liquor solvent. The solvates and hydrates of such compounds are included within the scope of this invention.

One or more compounds of the invention, even when in a library, can 100581 be in the biologically active ester form, such as the non-toxic, metabolically-labile ester-form. Such ester forms induce increased blood levels and prolong the efficacy of the corresponding non-esterified forms of the compounds. Ester groups which can be used include the lower alkoxymethyl groups, for example, methoxymethyl, ethoxymethyl, isopropoxymethyl and the like; the -( $C_1$  to  $C_7$ ) alkoxyethyl groups, for example methoxyethyl, ethoxyethyl, propoxyethyl, isopropoxyethyl and the like; the 2-oxo-1,3-diooxlen-4-ylmethyl groups, such as 5-methyl-2-oxo-1,3-dioxolen-4-ylmethyl, 5-phenyl-2-oxo-1,3-dioxolen-4-ylmethyl and the like; the C<sub>1</sub> to C<sub>4</sub> alkylthiomethyl groups, for example methylthiomethyl, ethylthiomethyl, iso-propylthiomethyl and the like; the acyloxymethyl groups, for example pivaloyloxymethyl, pivaloyloxyethyl, -acetoxymethyl and the like; the ethoxycarbonyl-1-methyl group; the -acetoxyethyl; 1-(C<sub>1</sub> the alkyloxycarbonyloxy)ethyl groups such as the 1-(ethoxycarbonyloxy)ethyl group; and the 1-(C1 to C7 alkylaminocarbonyloxy)ethyl groups such as the 1-(methylaminocarbonyloxy)ethyl group.

[0059] The term "amino acid" includes any one of the twenty naturally-occurring amino acids or the D-form of any one of the naturally-occurring amino acids. In addition, the term "amino acid" also includes other non-naturally occurring amino acids besides the D-amino acids, which are functional equivalents of the naturally-occurring amino acids. Such non-naturally-occurring amino acids include, for example, norleucine ("Nle"), norvaline ("Nva"), L- or D-naphthalanine, ornithine ("Orn"), homoarginine (homoArg) and others well known

in the peptide art, such as those described in M. Bodanzsky, "Principles of Peptide Synthesis," 1st and 2nd revised ed., Springer-Verlag, New York, NY, 1984 and 1993, and Stewart and Young, "Solid Phase Peptide Synthesis," 2nd ed., Pierce Chemical Co., Rockford, IL, 1984. Amino acids and amino acid analogs can be purchased commercially (Sigma Chemical Co.; Advanced Chemtech) or synthesized using methods known in the art.

The term "functionalized resin" means any resin, crosslinked or [0060] otherwise, where functional groups have been introduced into the resin, as is common in the art. Such resins include, for example, those functionalized with amino, alkylhalo, formyl or hydroxy groups. Such resins which can serve as solid supports are well known in the art and include, for example, (MBHA), 4methylbenzhydrylamine-copoly(styrene-1% divinylbenzene) hydroxymethylphenoxymethyl-copoly(styrene-1% divinylbenzene), 4-oxymethylphenyl-acetamido-copoly(stryene-1% divinylbenzene)(Wang), 4-(oxymethyl)phenylacetamido methyl (Pam), and Tentagel<sup>TM</sup>, from Rapp Polymere Gmbh, trialkoxy-diphenyl-methyl ester- copoly(styrene-1% divinylbenzene)(RINK) all of which are commercially available. Other functionalized resins are known in the art and can be use without departure from the scope of the current invention. Such resins may include those described in Jung, G., Combinatorial Peptide and Nonpeptide Libraties, A Handbook (VCH Verlag, 1996) or Bunin, B. A., The Combinatorial Index (Academic Press, 1998).

[0061] As used herein, a "combinatorial library" is an intentionally created collection of differing molecules which can be prepared by the means provided below or otherwise and screened for biological activity in a variety of formats (e.g., libraries of soluble molecules, libraries of compounds attached to resin beads, silica chips or other solid supports). A "combinatorial library," as defined above, involves successive rounds of chemical syntheses based on a common starting structure. The combinatorial libraries can be screened in any variety of assays, such as those detailed below as well as others useful for assessing their biological activity. The combinatorial libraries will generally have at least one active compound and are generally prepared such that the compounds are in

equimolar quantities.

**[0062]** A combinatorial library of the invention can contain one or more of the above-described compounds. The invention further provides a combinatorial library containing five or more of the above-described compounds. In another embodiment of the invention, a combinatorial library can contain ten or more of the above-described compounds. In yet another embodiment of the invention, a combinatorial library can contain fifty or more of the above-described compounds. If desired, a combinatorial library of the invention can contain 100,000 or more, or even 1,000,000 or more, of the above-described compounds.

**[0063]** By way of example, the preparation of the combinatorial libraries can use the "split resin approach." The split resin approach is described by, for example, U.S. Patent 5,010,175 to Rutter, WO PCT 91/19735 to Simon, and Gallop et al., *J. Med. Chem.*, 37:1233-1251 (1994).

**[0064]** For preparing pharmaceutical compositions containing compounds of the invention, inert, pharmaceutically acceptable carriers are used. The pharmaceutical carrier can be either solid or liquid. Solid form preparations include, for example, powders, tablets, dispersible granules, capsules, cachets, and suppositories.

**[0065]** A solid carrier can be one or more substances which can also act as diluents, flavoring agents, solubilizers, lubricants, suspending agents, binders, or tablet disintegrating agents; it can also be an encapsulating material.

**[0066]** In powders, the carrier is generally a finely divided solid which is in a mixture with the finely divided active component. In tablets, the active compound is mixed with the carrier having the necessary binding properties in suitable proportions and compacted in the shape and size desired.

**[0067]** For preparing pharmaceutical composition in the form of suppositories, a low-melting wax such as a mixture of fatty acid glycerides and cocoa butter is first melted and the active ingredient is dispersed therein by, for example, stirring. The molten homogeneous mixture is then poured into convenient-sized molds and allowed to cool and solidify.

[0068] Powders and tablets preferably contain between about 5% to about 70% by weight of the active ingredient. Suitable carriers include, for example, magnesium carbonate, magnesium stearate, talc, lactose, sugar, pectin, dextrin, starch, tragacanth, methyl cellulose, sodium carboxymethyl cellulose, a low-melting wax, cocoa butter and the like.

**[0069]** The pharmaceutical compositions can include the formulation of the active compound with encapsulating material as a carrier providing a capsule in which the active component (with or without other carriers) is surrounded by a carrier, which is thus in association with it. In a similar manner, cachets are also included. Tablets, powders, cachets, and capsules can be used as solid dosage forms suitable for oral administration.

**[0070]** Liquid pharmaceutical compositions include, for example, solutions suitable for oral or parenteral administration, or suspensions, and emulsions suitable for oral administration. Sterile water solutions of the active component or sterile solutions of the active component in solvents comprising water, ethanol, or propylene glycol are examples of liquid compositions suitable for parenteral administration.

**[0071]** Sterile solutions can be prepared by dissolving the active component in the desired solvent system, and then passing the resulting solution through a membrane filter to sterilize it or, alternatively, by dissolving the sterile compound in a previously sterilized solvent under sterile conditions.

**[0072]** Aqueous solutions for oral administration can be prepared by dissolving the active compound in water and adding suitable flavorants, coloring agents, stabilizers, and thickening agents as desired. Aqueous suspensions for oral use can be made by dispersing the finely divided active component in water together with a viscous material such as natural or synthetic gums, resins, methyl cellulose, sodium carboxymethyl cellulose, and other suspending agents known to the pharmaceutical formulation art.

**[0073]** Preferably, the pharmaceutical composition is in unit dosage form. In such form, the composition is divided into unit doses containing appropriate quantities of the active piperidine-3-carboxamide. The unit dosage form can be a

packaged preparation, the package containing discrete quantities of the preparation, for example, packeted tablets, capsules, and powders in vials or ampules. The unit dosage form can also be a capsule, cachet, or tablet itself, or it can be the appropriate number of any of these packaged forms.

[0074] As pharmaceutical compositions for treating infections, pain, or any other indication the compounds of the present invention are generally in a pharmaceutical composition so as to be administered to a subject at dosage levels of from 0.7 to 7000 mg per day, and preferably 1 to 500 mg per day, for a normal human adult of approximately 70 kg of body weight, this translates into a dosage of from 0.01 to 100 mg/kg of body weight per day. The specific dosages employed, however, can be varied depending upon the requirements of the patient, the severity of the condition being treated, and the activity of the compound being employed. The determination of optimum dosages for a particular situation is within the skill of the art.

**[0075]** Variant piperidine-3-carboxamide derivative compounds and combinatorial libraries can be prepared as shown in figures 1 and 2 in order to achieve a high level of diversity.

**[0076]** Resins suitable for use in the present invention can easily be determined by one skilled in the art. Such resins include but are not limited to polystyrene resin (e.g. Wang resin : *p*-benzyloxybenzyl alcohol-polystyrene) and PEG-grafted polystyrene resin (e.g. Tentagel, Argogel).

[0077] Other suitable resins known in the art can be found in "Solid Phase Synthesis and Combinatorial Technologies", Seneci, P.; John Wiley and Sons, 2000, p 1-45.

[0078] The resulting compound can be cleaved from the resin. Resin-bound piperidine-3-carboxamide derivative compounds can be cleaved by treating them, for example, with HF. They can also be cleaved with TFA/DCM, provided that TFA sensitive protecting group such as Boc are not used in the synthetic scheme. The compounds can be extracted from the spent resin, for example, with AcOH.

[0079] The nonsupport-bound combinatorial libraries can be screened as

single compounds. In addition, the nonsupport-bound combinatorial libraries can be screened as mixtures in solution in assays such as radio-receptor inhibition assays, anti-bacterial assays, anti-fungal assays, calmodulin-dependent phosphodiesterase (CaMPDE) assays and phosphodiesterase (PDE) assays, as described in detail below. Deconvolution of highly active mixtures can then be carried out by iterative or positional scanning methods. These techniques, the iterative approach or the positional scanning approach, can be utilized for finding other active compounds within the combinatorial libraries of the present invention using any one of the below-described assays or others well known in the art.

The iterative approach is well-known and is set forth in general in Houghten et al., Nature, 354, 84-86 (1991) and Dooley et al., Science, 266, 2019-2022 (1994), both of which are incorporated herein by reference. In the iterative approach, for example, sub-libraries of a molecule having three variable groups are made wherein the first variable is defined. Each of the compounds with the defined variable group is reacted with all of the other possibilities at the other two variable groups. These sub-libraries are each tested to define the identity of the second variable in the sub-library having the highest activity in the screen of choice. A new sub-library with the first two variable positions defined is reacted again with all the other possibilities at the remaining undefined variable position. As before, the identity of the third variable position in the sub-library having the highest activity is determined. If more variables exist, this process is repeated for all variables, yielding the compound with each variable contributing to the highest desired activity in the screening process. Promising compounds from this process can then be synthesized on larger scale in traditional singlecompound synthetic methods for further biological investigation.

[0081] The positional-scanning approach has been described for various combinatorial libraries as described, for example, in R. Houghten *et al.* PCT/US91/08694 and U.S. Patent 5,556,762, both of which are incorporated herein by reference. In the positional scanning approach, sublibraries are made defining only one variable with each set of sublibraries and all possible sublibraries with each single variable defined (and all other possibilities at all of

the other variable positions), made and tested. From the instant description one skilled in the art could synthesize combinatorial libraries wherein two fixed positions are defined at a time. From the testing of each single-variable defined combinatorial library, the optimum substituent at that position can be determined, pointing to the optimum or at least a series of compounds having a maximum of the desired biological activity. Thus, the number of sublibraries for compounds with a single position defined will be the number of different substituents desired at that position, and the number of all the compounds in each sublibrary will be the product of the number of substituents at each of the other variables.

[0082] Individual compounds and pharmaceutical compositions containing the compounds, as well as methods of using the same, are included within the scope of the present invention. The compounds of the present invention can be used for a variety of purposes and indications and as medicaments for any such purposes and indications. For example, piperidine-3-carboxamide derivative compounds of the present invention can be used as pesticides, acaricides, receptor agonists or antagonists and antimicrobial agents, including antibacterial or antiviral agents. The libraries can be screened in any variety of melanocortin receptor and related activity assays, such as those detailed below as well as others known in the art. Additionally, the subject compounds can be useful as analgesics. Assays which can be used to test the biological activity of the instant compounds include antimicrobial assays, a competitive enzyme-linked immunoabsorbent assay and radio-receptor assays, as described below.

[0083] The melanocortin (MC) receptors are a group of cell surface proteins that mediate a variety of physiological effects, including regulation of adrenal gland function such as production of the glucocorticoids cortisol and aldosterone; control of melanocyte growth and pigment production; thermoregulation; immunomodulation; and analgesia. Five distinct MC receptors have been cloned and are expressed in a variety of tissues, including melanocytes, adrenal cortex, brain, gut, placenta, skeletal muscle, lung, spleen, thymus, bone marrow, pituitary, gonads and adipose tissue (Tatro, Neuroimmunomodulation 3:259-284 (1996)). Three MC receptors, MCR-1, MCR-3 and MCR-4, are expressed in

brain tissue (Xia et al., Neuroreport 6:2193-2196 (1995)).

**[0084]** A variety of ligands termed melanocortins function as agonists that stimulate the activity of MC receptors. The melanocortins include melanocyte-stimulating hormones (MSH) such as  $\alpha$ -MSH,  $\beta$ -MSH and  $\gamma$ -MSH, as well as adrenocorticotropic hormone (ACTH). Individual ligands can bind to multiple MC receptors with differing relative affinities. The variety of ligands and MC receptors with differential tissue-specific expression likely provides the molecular basis for the diverse physiological effects of melanocortins and MC receptors. For example,  $\alpha$ -MSH antagonizes the actions of immunological substances such as cytokines and acts to modulate fever, inflammation and immune responses (Catania and Lipton, <u>Annals N. Y. Acad. Sci.</u> 680:412-423 (1993)).

[0085] The role of certain specific MC receptors in some of the physiological effects described above for MC receptors has been elucidated. For example, MCR-1 is involved in pain and inflammation. MCR-1 mRNA is expressed in neutrophils (Catania et al., Peptides 17:675-679 (1996)). The anti-inflammatory agent  $\alpha$ -MSH was found to inhibit migration of neutrophils. Thus, the presence of MCR-1 in neutrophils correlates with the anti-inflammatory activity of  $\alpha$ -MSH.

[0086] An interesting link of MC receptors to regulation of food intake and obesity has recently been described. The brain MC receptor MCR-4 has been shown to function in the regulation of body weight and food intake. Mice in which MCR-4 has been knocked out exhibit weight gain (Huszar et al., Cell 88:131-141 (1997)). In addition, injection into brain of synthetic peptides that mimic melanocortins and bind to MCR-4 caused suppressed feeding in normal and mutant obese mice (Fan et al., Nature 385:165-168 (1997)). These results indicate that the brain MC receptor MCR-4 functions in regulating food intake and body weight.

[0087] Due to the varied physiological activities of MC receptors, high affinity ligands of MC receptors could be used to exploit the varied physiological responses of MC receptors by functioning as potential therapeutic agents or as lead compounds for the development of therapeutic agents. Furthermore, due to

the effect of MC receptors on the activity of various cytokines, high affinity MC receptor ligands could also be used to regulate cytokine activity.

[0088] A variety of assays can be used to identify or characterize MC receptor ligands of the invention. For example, the ability of a piperidine-3-carboxamide derivative compound to compete for binding of a known MC receptor ligand can be used to assess the affinity and specificity of a piperidine-3-carboxamide derivative compound for one or more MC receptors. Any MC receptor ligand can be used so long as the ligand can be labeled with a detectable moiety. The detectable moiety can be, for example, a radiolabel, fluorescent label or chromophore, or any detectable functional moiety so long as the MC receptor ligand exhibits specific MC receptor binding. A particularly useful detectable MC receptor ligand for identifying and characterizing other MC receptor ligands is 125I-HP 467, which has the amino acid sequence Ac-NIe-Gln-His-(p(I)-D-Phe)-Arg-(D-Trp)-Gly-NH2 and is described in Dooley et al., "Melanocortin Receptor Ligands and Methods of Using Same," U.S. patent application 09/027,108, filed February 20, 1998, which is incorporated herein by reference. HP 467 is a paraiodinated form of HP 228.

**[0089]** Using assay methods such as those described above, binding kinetics and competition with radiolabeled HP 467 can confirm that piperidine-3-carboxamide derivative compounds of the invention bind to one or more MC receptors. Furthermore, piperidine-3-carboxamide derivative compounds of the invention can exhibit a range of affinities and specificity for various MC receptors.

[0090] The invention provides MC receptor ligands that can bind to several MC receptors with similar affinity. In addition, the invention also provides MC receptor ligands that can be selective for one or more MC receptors. As used herein, the term "selective" means that the affinity of a MC receptor ligand differs between one MC receptor and another by about 10-fold, generally about 20- to 50-fold, and particularly about 100-fold. In some cases, a MC receptor ligand having broad specificity is desired. In other cases, it is desirable to use MC receptor ligands having selectivity for a particular MC receptor. For example, MCR-1 ligands are particularly useful for treating pain and inflammation, whereas

MCR-4 ligands are useful for treating obesity. The binding characteristics and specificity of a given MC receptor ligand can be selected based on the particular disease or physiological effect that is desired to be altered.

**[0091]** Another assay useful for identifying or characterizing MC receptor ligands measures signaling of MC receptors. MC receptors are G protein-coupled receptors that couple to adenylate cyclase and produce cAMP. Therefore, measuring cAMP production in a cell expressing a MC receptor and treated with a MC receptor ligand can be used to assess the function of the MC receptor ligand in activating a MC receptor.

Ligands for MC-3 that can alter the activity of an MC-3 receptor can be useful for treating sexual dysfunction and other conditions or conditions associated with MC-3 such as inflammation. Other MC-3-associated conditions that can be treated with the MC-3 receptor ligands include disuse deconditioning; organ damage such as organ transplantation or ischemic injury; adverse diseases such associated with cancer chemotherapy; reactions atherosclerosis that are mediated by free radicals and nitric oxide action; bacterial endotoxic sepsis and related shock; adult respiratory distress syndrome; and autoimmune or other patho-immunogenic diseases or reactions such as allergic reactions or anaphylaxis, rheumatoid arthritis, inflammatory glomerulonephritis, systemic colitis, disease, ulcerative erythematosus, transplant atherosclerosis and parasitic mediated immune dysfunctions such as Chagas's disease.

**[0093]** The invention further provides a method for treating an MC-3-associated condition in a subject. The term "MC-3-associated condition" includes any condition or condition mediated by MC-3 or can be affected by binding an MC-3 ligand. Such conditions include inflammation and sexual dysfunction.

**[0094]** The term "sexual dysfunction" herein means any condition that inhibits or impairs normal sexual function, including coitus. However, the term need not be limited to physiological conditions, but may include psychogenic conditions or perceived impairment without a formal diagnosis of pathology.

**[0095]** In males, sexual dysfunction includes erectile dysfunction. The term "erectile dysfunction" or "impotence" means herein the inability or impaired ability to attain or sustain an erection that would be of satisfactory rigidity for coitus. Sexual dysfunction in males can also include premature ejaculation and priapism, which is a condition of prolonged and sometimes painful erection unrelated to sexual activity, often associated with sickle-cell disease.

**[0096]** In females, sexual dysfunction includes sexual arousal disorder. The term "sexual arousal disorder" means herein a persistent or recurrent failure to attain or maintain the lubrication-swelling response of sexual excitement until completion of sexual activity. Sexual dysfunction in females can also include inhibited orgasm and dyspareunia, which is painful or difficult coitus. Sexual dysfunction can also be manifested as inhibited sexual desire or inhibited lordosis behavior in animals.

**[0097]** In addition, the ability of the compounds to inhibit bacterial growth, and therefore be useful to that infection, can be determined by methods well known in the art. Compounds of the present invention can be shown to have antimicrobial activity by the *in vitro* antimicrobial activity assay described below and, therefore, are useful as antimicrobial agents.

**[0098]** Moreover, an exemplary *in vitro* antimicrobial activity assay is described in Blondelle and Houghten, *Biochemistry* 30:4671-4678 (1991), which is incorporated herein by reference. In brief, *Staphylococcus aureus* ATCC 29213 (Rockville, MD) is grown overnight at 37°C in Mueller-Hinton broth, then re-inoculated and incubated at 37°C to reach the exponential phase of bacterial growth (i.e., a final bacterial suspension containing 105 to 5 x 105 colony-forming units/ml). The concentration of cells is established by plating 100  $\mu$ l of the culture solution using serial dilutions (e.g., 10-2, 10-3 and 10-4) onto solid agar plates. In 96-well tissue culture plates, compounds, individual or in mixtures, are added to the bacterial suspension at concentrations derived from serial two-fold dilutions ranging from 1500 to 2.9  $\mu$ g/ml. The plates are incubated overnight at 37°C and the growth determined at each concentration by OD620 nm. The IC50

(the concentration necessary to inhibit 50% of the growth of the bacteria) can then be calculated.

**[0099]** The competitive ELISA method which can be used here is a modification of the direct ELISA technique described previously in Appel et al., <u>J. Immunol.</u> 144:976-983 (1990), which is incorporated herein by reference. It differs only in the MAb addition step. Briefly, multi-well microplates are coated with the antigenic peptide (Ac-GASPYPNLSNQQT-NH2) at a concentration of 100 pmol/50 μl. After blocking, 25 μl of a 1.0 mg/ml solution of each mixture of a synthetic combinatorial library (or individual compound) is added, followed by MAb 125-10F3 (Appel et al., *supra*) (25 μl per well). The MAb is added at a fixed dilution in which the bicyclic guanidine in solution effectively competes for MAb binding with the antigenic peptide adsorbed to the plate. The remaining steps are the same as for direct ELISA. The concentration of compound necessary to inhibit 50% of the MAb binding to the control peptide on the plate (IC50) is determined by serial dilutions of the compound.

**[0100]** Alternative screening can be done with radio-receptor assays. The radio-receptor assay, can be selective for any one of the  $\mu$ ,  $\kappa$ , or  $\delta$  opiate receptors. Compounds of the present invention can be useful in vitro for the diagnosis of relevant opioid receptor subtypes, such as  $\kappa$ , in the brain and other tissue samples. Similarly, the compounds can be used *in vivo* diagnostically to localize opioid receptor subtypes.

**[0101]** The radio-receptor assays are also an indication of the compounds' analgesic properties as described, for example, in Dooley et al., *Proc. Natl. Acad. Sci.*, 90:10811-10815 (1993). For example, it can be envisioned that these compounds can be used for therapeutic purposes to block the peripheral effects of a centrally acting pain killer. For instance, morphine is a centrally acting pain killer. Morphine, however, has a number of deleterious effects in the periphery which are not required for the desired analgesic effects, such as constipation and pruritus (itching). While it is known that the many compounds do not readily cross the blood-brain barrier and, therefore, elicit no central effect, the subject

compounds can have value in blocking the periphery effects of morphine, such as constipation and pruritus. Accordingly, the subject compounds can also be useful as drugs, namely as analgesics, or to treat pathologies associated with other compounds which interact with the opioid receptor system.

**[0102]** Additionally, such compounds can be tested in a  $\sigma$  receptor assay. Ligands for the  $\sigma$  receptor can be useful as antipsychotic agents, as described in Abou-Gharbia et al., *Annual Reports in Medicinal Chemistry*, 28:1-10 (1993).

Radio-receptor assays can be performed with particulate membranes [0103] prepared using a modification of the method described in Pasternak et al., Mol. Pharmacol. 11:340-351 (1975), which is incorporated herein by reference. Rat brains frozen in liquid nitrogen can be obtained from Rockland (Gilbertsville, PA). The brains are thawed, the cerebella removed and the remaining tissue weighed. Each brain is individually homogenized in 40 ml Tris-HCl buffer (50 mM, pH 7.4, 4°C) and centrifuged (Sorvall® RC5C SA-600: Du Pont, Wilmington, DE) (16,000 rpm) for 10 minutes. The pellets are resuspended in fresh Tris-HCl buffer and incubated at 37°C for 40 minutes. Following incubation, the suspensions are centrifuged as before, the resulting pellets resuspended in 100 volumes of Tris buffer and the suspensions combined. Membrane suspensions are prepared and used in the same day. Protein content of the crude homogenates generally range from 0.15-0.2 mg/ml as determined using the method described in Bradford, M.M., Anal. Biochem. 72:248-254 (1976), which is incorporated herein by reference.

**[0104]** Binding assays are carried out in polypropylene tubes, each tube containing 0.5 ml of membrane suspension. 8 nM of 3H-[D-Ala2,Me-Phe4,Gly-ol5]enkephalin (DAMGO) (specific activity = 36 Ci/mmol, 160,000 cpm per tube; which can be obtained from Multiple Peptide Systems, San Diego, CA, through NIDA drug distribution program 271-90-7302) and 80 μg/ml of bicyclic guanidine, individual or as a mixture and Tris-HCl buffer in a total volume of 0.65 ml. Assay tubes are incubated for 60 mins. at 25°C. The reaction is terminated by filtration through GF-B filters on a Tomtec harvester (Orange, CT). The filters are

subsequently washed with 6 ml of Tris-HCl buffer, 4°C. Bound radioactivity is counted on a Pharmacia Biotech Betaplate Liquid Scintillation Counter (Piscataway, NJ) and expressed in cpm. To determine inter- and intra-assay variation, standard curves in which 3H-DAMGO is incubated in the presence of a range of concentrations of unlabeled DAMGO (0.13-3900 nM) are generally included in each plate of each assay (a 96-well format). Competitive inhibition assays are performed as above using serial dilutions of the piperidine-3-carboxamides, individually or in mixtures. IC50 values (the concentration necessary to inhibit 50% of 3H-DAMGO binding) are then calculated. IC50 values of less than 1000 nM are indicative of highly active opioid compounds which bind to the μ receptor, with particularly active compounds having IC50 values of 100 nM or less and the most active compounds with values of less than 10 nM.

**[0105]** As opposed to this  $\mu$  receptor selective assay, which can be carried out using 3H-DAMGO as radioligand, as described above, assays selective for  $\kappa$  receptors can be carried out using [3H]-U69,593 (3 nM, specific activity 62 Ci/mmol) as radioligand. Assays selective for  $\delta$  opiate receptors can be carried out using tritiated DSLET ([D-Ser2, D-Leu5]-threonine-enkephalin) as radioligand. Assays selective for the  $\sigma$  opiate, receptor can use radiolabeled pentazocine as ligand.

**[0106]** Screening of combinatorial libraries and compounds of the invention can be done with an anti-fungal assay. Compounds of the present invention can be useful for treating fungal infections.

**[0107]** Screening of combinatorial libraries and compounds of the invention also can be done with a calmodulin-dependent phosphodiesterase (CaMPDE) assay. Compounds of the present invention can be useful as calmodulin antagonists.

**[0108]** Calmodulin (CaM), which is the major intracellular calcium receptor, is involved in many processes that are crucial to cellular viability. In particular, calmodulin is implicated in calcium-stimulated cell proliferation. Calmodulin

antagonists are, therefore, useful for treating conditions associated with increased cell proliferation, for example, cancer. In addition, calmodulin antagonists such as compounds of the subject invention are useful both in vitro and in vivo for identifying the role of calmodulin in other biological processes. The disadvantages of known antagonists such as trifluoperazine and N-(4-aminobutyl)-5-chloro-2-naphthalenesulfonamide (W13) include their non-specificity and toxicity. In contrast, advantages of the combinatorial libraries and compounds of the subject invention as calmodulin antagonists include their reduced flexibility and ability to generate broader conformational space of interactive residues as compared to their linear counterparts.

An example of an assay that identifies CaM antagonists is a CaMPDE assay. In brief, samples are mixed with 50 µl of assay buffer (360 mM Tris, 360 mM Imidazole, 45 mM Mg(CH3COO)2, pH 7.5) and 10 µl of CaCl2 (4.5 mM) to a final volume of 251 µl. 25 µl of calmodulin stock solution (Boehringer Mannheim; 0.01 µg/µl) is then added and the samples then sit at room temperature for 10 14 µl of PDE (Sigma; 2 Units dissolved in 4 ml of water; stock minutes. concentration: 0.0005 Units/µI) is then added, followed by 50 µI of 5'-nucleotidase (Sigma; 100 Units dissolved in 10 ml of 10 mM Tris-HCl containing 0.5 mM Mg(CH3COO)2, pH 7.0; stock concentration: 10 Units/ml). The samples are then incubated for 10 minutes at 30°C. 50  $\mu$ l of adenosine 3',5'-cyclic monophosphate (cAMP) (20 mM in water at pH 7.0) is added, the samples incubated for 1 hour at 30°C and then vortexed. 200  $\mu$ l of trichloroacetic acid (TCA) (55% in water) is added to a 200  $\mu$ l sample aliquot, which is then vortexed and centrifuged for 10 minutes. 80 µl of the resulting supernatants of each sample is transferred to a 96-well plate, with 2 wells each containing 80 µl of each sample. 80 µl of ammonium molybdate (1.1% in 1.1N H2SO4) is then added to all the wells, and the OD of each were determined at 730nm, with the values later subtracted to the final OD reading. 16 µl of reducing agent (6g sodium bisulfite, 0.6g sodium sulfite and 125mg of 1-amino-2-naphtol-4-sulfonic acid in 50ml of water) is then added to one of each sample duplicate and 16 µl of water is added to the other duplicate. After sitting for 1 hour at room

temperature, the OD of each well is determined at 730nm. The percent inhibition of calmodulin activity is then calculated for each sample, using as 0% inhibition a control sample containing all reagents without any test samples and as 100% inhibition a control sample containing test samples and all reagents except calmodulin. In addition, the percent inhibition of phosphodiesterase activity was determined by following a similar protocol as the CaMPDE assay described above, except not adding calmodulin to the sample mixture and calculating the percent inhibition by using as 0% inhibition a control reagent without any test samples and as 100% inhibition a control sample containing test samples and all reagents except cAMP.

**[0110]** The following examples are provided to illustrate but not limit the present invention. The following abreviations have the corresponding meanings:

DMF: N,N-dimethylforamide;

HOBt: 1-hydroxybenzotriazole;

Boc: tert-butoxycarbonyl;

DIC: N,N=-diisopropylcarbodiimide;

TFA: trifluoroacetic acid:

DIEA: N,N-diisopropylethylamine;

DCM: dichloromethane;

RT: room temperature

MeOH: methanol

MeOEtOH: 2-methoxyethanol

DCE: 1,2-dichloroethane

THF: tetrahydrofuran

ACN: acetonitrile

Wang resin: p-benzyloxybenzyl alcohol-polystyrene Br-Wang resin:

*p*-benzyloxybenzyl bromide-polystyrene

PP: polypropylene

PPh3Br2: triphenylphosphine dibromide

DMAP: 4-dimethylamino-pyridine

# Example 1 Synthetic Protocol

## Step 1a. Loading Hydroxybenzaldehydes on Bromo-Wang Resin

[0111] A 1 L Pyrex media bottle was charged with 100 g Bromo-Wang resin (100-200 mesh, 1.4 mmol/g). DMF (350 ml) was added and the bottle was shaken by hand to distribute the solvent within the swollen resin. A 500 ml Pyrex media bottle was charged with the hydroxybenzaldehyde (420 mmol, 3 eq) and the aldehyde was dissolved in DMF (300 ml). The aldehyde solution was cooled to 0° C (ice bath) and potassium tert-butoxide (44.8 g, 400 mmol) was added in two equal portions shaking for about 5 min. between additions. CAUTION: EXOTHERMIC REACTION. The temperature must be maintained at or below 25° C. The bottle was removed from the ice bath and shaken periodically to help dissolve the potassium tert-butoxide completely. After the second portion of potassium tert-butoxide was added, the bottle was allowed to warm to 25° C. After 30 min. at 25° C, all the potassium tert-butoxide dissolved and the solutions had various dark colors. The phenoxide solution was added to the swollen resin in two portions, shaking between portions. The 1L bottles were clamped horizontally in an orbital shaker oven and allowed to shake at 25° C for 30 min. The temperature was then increased to 50° C and the reaction allowed to shake for 14 h. After cooling, each resin slurry was poured into a 8" x 10" 3-sided porous polypropylene packet (tea bag) sitting in a 2 L beaker. After the solvent mixture had drained from the resin, the fourth side of the tea bag was sealed and the tea bags were washed in wide-mouth HDPE Nalgene bottles as follows: 2 x DMF, 4 x DMF/H<sub>2</sub>O (4:1), 3 x DMF, 4 x MeOH. The tea bags were allowed to air dry in a fume hood.

## Step 1b. Loading Diamines on Wang-Imidazolide Resin

[0112] For each R<sub>1</sub> diamine, a 4 L Nalgene bottle was charged with 17 x 2.5 g

tea bags containing Wang resin (100-200 mesh, 1.4 mmol/g). DCM (2 L) was added followed by 1,1'-carbonyldiimidazole (97 g, 0.60 mol, 0.3 M). The bags were shaken for 3 h at room temperature. Each diamine (0.72 mol, 0.4 M) was placed in a 2 L Nalgene bottle and 1.8 L of DCM added.

**[0113]** After 3 h shaking with CDI, the Wang-imidazolide tea bags were washed quickly with DCM (x2). The diamine solution was added immediately and the bags shaken overnight at room temperature. The bags were washed with DCM (x3) and MeOH (x3).

## Step 2a. Imine Formation for the R<sub>1</sub> Hydroxybenzaldehydes.

**[0114]** After splitting the tea bags from step 1a, each set of  $8 \times 2.5$  g bags was placed into a 1 L Nalgene bottle. The containers were then filled with 250 ml of trimethylorthoformate and 250 ml of anhydrous DMF. After the bags were saturated with the solvent, the primary amine (150 mmol, 0.3 M) was added. The reaction was then allowed to shake at room temperature for 24 h. The wash procedure must be carried out just before step 3 and the description is included in that section.

## Step 2b. Imine Formation for the R<sub>1</sub> Primary Diamines.

**[0115]** After splitting the tea bags from step 1b, each set of  $7 \times 2.5$  g bags was piaced into a 1 L Nalgene bottle. The containers were then filled with 250 ml of trimethylorthoformate and 250 ml of anhydrous DMF. After the bags were saturated with the solvent, the aldehyde (150 mmol, 0.3 M) was added. The reaction was then shaken at room temperature for 24 h. The wash procedure must be carried out just before step 3 and is described in that section.

## Step 3. Cyclization with 2-Phenylglutaric Anhydride

**[0116]** In an 8L Nalgene bottle, 2-Phenylglutaric anhydride (1.0 mol, 0.4M) was completely dissolved in 2.5L anhydrous DMF and triethylamine (0.03 M) was added. This anhydride solution is created before washing the imine tea bags. The imine tea bags from step 2 (60 X 2.5g bags) were quickly washed with

anhydrous DMF (3 x, 3 minutes or less washing). After washing, the imine bags were immediately transferred to the 2-Phenylglutaric anhydride solution and the reaction shaken at RT for 5 days. The bags were washed with DMF (x3) DCM (x3) and MeOH (x3) and air-dried.

## Step 4. Acylation of the Resin Bound Carboxylic Acid.

**[0117]** Each tea bag from step 3 was plated into 40 wells of a 2 ml deep-well microtiter plate. The resin bound carboxylic acid was pre-activated by treatment with 0.6 ml of a solution containing 0.6 M DIC, 0.6M HOBt in anhydrous DMF. The plates were allowed to stand for one hour at room temperature. During this time, each amine solution was prepared by dissolving the amine (0.6M) in a solution of DIEA (0.8 M) in DMF. To each well containing the pre-activated acid resin was added 0.6 ml of the amine solution. The final concentrations in each well were: amine (0.3M), DIEA (0.4 M), HOBt (0.3 M), and DIC (0.3 M). The plates were vortexed and were placed in a shaker oven at 50° C for 24 h. After cooling to room temperature, the resin was washed using a robotic wash station with 20% water/DMF (x2), DMF (x8) and MeOH (x6) and air-dried.

## Step 5. Cleavage from Linker and Extraction

**[0118]** To dry microtiter plates was added 0.5 ml of 20% TFA/DCM to each well. The plates were capped and placed on a shaker at room temperature for 2 h. The plates were transferred to a GENEVAC to remove the volatile TFA/DCM solution. The resin was extracted with AcOH and the extracts were frozen and lyophilized to afford the products as yellow oils. All of the final products were analyzed by HPLC/MS using ELSD detection to determine purity.

#### Example 2

## Preparation of (Substituted Phenyl)-glutaric anhydrides

[0119] The appropriate substituted phenylacetic acid ethyl or methyl ester 1 (0.01 mol) is dissolved in anhydrous ethanol (100 ml). To this solution is added

Sodium ethoxide (0.01 mol), followed by ethyl acrylate (0.015 mol), and the solution is heated to reflux overnight. The solution is cooled and the solvent evaporated under reduced pressure. The product **2** is then dissolved in 100 ml H2O/EtOH 1:1 and KOH added (0.10 mol). The solution is heated to reflux for 10 hours, acidified to pH 3 with 1 N HCl and the diacid product **3** extracted with EtOAc, washed with water and brine, and dried with MgSO4. After removal of the solvent, the resulting solid is suspended in Acetic anhydride (100 ml) and heated to reflux for 1 hour to afford the anhydride. The solvent is removed and the residue is suspended in toluene and evaporated to afford the product **4**.

List of Compounds 1: ETHYL 2-THIOPHENEACETATE ETHYL THIOPHENE-3-ACETATE INDOLE-3-ACETIC ACID ETHYL ESTER ETHYL 2-PYRIDYLACETATE ETHYL 3-PYRIDYLACETATE ETHYL O-TOLYLACETATE ETHYL P-TOLYLACETATE METHYL 1-METHYL-2-PYRROLEACETATE METHYL 2,3,4,5,6-PENTAFLUOROPHENYLACETATE ETHYL 2-NAPHTHYLACETATE METHYL 2-(4,5-DIMETHOXY-2-NITROPHENYL)ACETATE ETHYL P-BROMOPHENYLACETATE ETHYL 4-NITROPHENYLACETATE METHYL 2,3,4-TRIMETHOXYPHENYL ACETATE METHYL 3,4,5-TRIMETHOXYPHENYL ACETATE ETHYL 3,4-DIMETHOXYPHENYLACETATE ETHYL M-TOLYLACETATE 2,4-DICHLOROPHENYLACETIC ACID METHYL ESTER ETHYL 4-CHLOROPHENYLACETATE ETHYL 1-NAPHTHYLACETATE ETHYL 3-METHOXYPHENYLACETATE ETHYL 4-BENZYLOXYPHENYLACETATE ETHYL 4-METHOXYPHENYLACETATE 5-BENZYLOXYINDOLE-3-ACETIC ACID METHYL ESTER ETHYL PYRIDINE-4-ACETATE METHYL 4-TERT-BUTYLPHENYLACETATE ETHYL MESITYLACETATE ETHYL 4-ETHOXYPHENYLACETATE ETHYL 2-BROMOPHENYLACETATE 4-BUTOXYPHENYLACETIC ACID METHYL ESTER

ETHYL 3,5-DIMETHYLPHENYLACETATE METHYL 3,5-DIMETHOXYPHENYLACETATE ETHYL 2-NITROPHENYLACETATE 2-CHLOROPHENYLACETIC ACID METHYL ESTER METHYL 4-BENZYLOXYPHENYLACETATE METHYL 5-CHLOROBENZO[B]THIEN-3-YLACETATE 2,6-DICHLOROPHENYLACETIC ACID METHYL ESTER ETHYL 2,5-DIMETHOXYPHENYLACETATE METHYL (5-METHYL-2-PHENYLOXAZOL-4-YL)ACETATE METHYL 5,6-DICHLORO-3-INDOLEACETATE METHYL 2-(5-METHOXY-2-METHYL-1H-INDOL-3-YL)ACETATE METHYL (5-METHYL-2-PHENYLTHIAZOL-4-YL)ACETATE IMIDAZO(2,1-B)THIAZOL-6-YL-ACETIC ACID ETHYL ESTER (4-CHLORO-2-NITRO-PHENYL)-ACETIC ACID ETHYL ESTER ETHYL 2-(TRIFLUOROMETHYL)PHENYL ACETATE ETHYL 2-[2-(ACETYLAMINO)-1,3-THIAZOL-4-YL]ACETATE (1H-IMIDAZOL-4-YL)-ACETIC ACID METHYL ESTER (4,5-DIMETHOXY-2-NITRO-PHENYL)-ACETIC ACID ETHYL ESTER ETHYLFURYL ACETATE METHYL 2-FLUOROPHENYLACETATE METHYL 2-CHLORO-6-FLUOROPHENYLACETATE METHYL 4-FLUOROPHENYLACETATE METHYL 2-CHLORO-4-FLUOROPHENYL ACETATE METHYL 3-CHLOROPHENYLACETATE METHYL 3.4-DICHLOROPHENYLACETATE ETHYL 2-(2-PHENYL-1,3-THIAZOL-4-YL)ACETATE ETHYL 3,4-DICHLOROPHENYLACETATE ETHYL 2-(2-METHYL-1,3-THIAZOL-4-YL)ACETATE ETHYL 2-[2-[4-(TERT-BUTYL)PHENYL]-1,3-THIAZOL-4-YLIACETATE ETHYL 2-[2-(4-CHLOROPHENYL)-1,3-THIAZOL-4-YL]ACETATE METHYL (2-CYANOPHENYL)ACETATE METHYL (4-CYANOPHENYL)ACETATE

## Example 3

## **Anti-microbial Screen**

**[0120]** Streptococcus pyogenes (ATCC# 97-03 14289) was grown in Todd Hewitt Broth (THB) (Difco Laboratories #0492-17-6) overnight until reaching an optical density of (OD = 0.636@ 570 nm) by reading 0.1 ml in a 96 well microtiter plate in a Molecular Devices Thermomax. This preparation was kept frozen as stocks in 30% v/v glycerol in 1.5 ml aliquots at -70mC until use. Prior to experiments, 6 ml aliquots were thawed and diluted into 50 ml 2X THB. 60 ul

of this dilution was added to 92 wells of microtiter plate. To three wells THB (200 ul) was added to serve as a blank and a sterility control. Test compounds in DMSO and appropriate concentrations of DMSO were added to Growth/Solvent Controls at 0 time. Plates were read at 0 time at 570 nm in the Molecular Devices plate reader to obtain compounds correction factors for insoluble or colored compounds. Plates were read again at 4 hours.

[0121] Percent inhibition is calculated with the following formula

[0122] Color correct = O.D. 0 hr - Blank 0 hr)-(Solvent Control 0hr - Blank 0 hr)

[0123] % Inhibition =

100 - O.D. test compound 4 hr - Blank 4 hr - color correct O.D. growth/solvent control 4 hr - Blank 4 hr

O <sub>3</sub> 568 542	593.686	) <sub>3</sub> 570 568	521 698
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f Assay Spy4H	Spy4H	Spy4H	Spy4H
Raw Data Assay Result Assay 0.098 99.97 Spy4H	06.86	97.52	97.51
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Library Cmpd Lot ExtReg Plate Well 9100 2979 1 000728122 9100-042 C 04	1 000726065 9100-009 B 07	2442 1 000727585 9100-035 B 07	3002 1 000728145 9100-042 B 07
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Library 9100	9100	9100 00	9100

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	Spy4H	Spy4H	Spy4H	
Assay Resul 97 24	99 96	86 86	96 21	
Raw Data 0.203	0 13	0.162	0.207	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 2989 1 000728132 9100-042 E 05 0.203 97.24 Spy4H	1 000727625 9100-036 B 02	2509 1 000727652 9100-036 E 05	1 000726052 9100-009 E 05	
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562 106	556 541	531,487	
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l <b>Assay</b> ( Spy4H	Spy4H	Spy4H	
kssay Resul 95.57	95.27	15.46	
Raw Data / 0 112	0.216	0.234	
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Library 9100	0000	9100	

570 73	491.672	525.689
C34 H42 N4 O4	C <sub>30</sub> H <sub>41</sub> N <sub>3</sub> O <sub>3</sub>	C <sub>33</sub> H <sub>39</sub> N <sub>3</sub> O <sub>3</sub>
#NAME?	HODE WANTER	HAME?
Well Raw Data Assay Result Assay Conc.mg/mt LionID C 09 0 132 94.27 Spy4H 0 1776 TR0910003739	H TR0910001029	TR0910002402
Conc mg/ml 0 1776	0.1776	0 1776
# Assay Spy4H	Spy4H	Spy4H
Assay Resul 94.27	11.46	92.38
Raw Data 0 132	0.162	0 12
Library Cripid Lot ExtReg Plate Well 9100 3739 1 000728882 9100-051 C 09	1029 1 000726412 9100-013 E 10	2402 1 000727545 9100-035 B 02
3739 3739		
Librar 9100	0100	9100

570.568	566.526	525.689	526 472
C <sub>30</sub> H <sub>40</sub> Br N <sub>3</sub> O <sub>3</sub>	C <sub>31</sub> H <sub>33</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>3</sub>	C CH, CH, CH, CH, CH, CH, CH, CH, CH, CH	C <sub>27</sub> H <sub>32</sub> Br N <sub>3</sub> O <sub>3</sub>
#NAME?	Hyo-N Hyo-N Hyo-N N N N N N N N N N N N N N N N N N N	WAME?	#NAME?
LionID TR0910002469	TR0910000649	TR0910002420	TR0910002474
Concing/mi LionID 0 1776 TR091	0.1776	0 1776	0.1776
3333 <u> </u>	Spy4H	Spy4H	Spy4H
Assay Result Assay 90.14 Spy4H	84 40	84.37	84.05
Raw Data 0 231	0.217	0 219	0.265
Library Cripd Lot ExtReg Plate Well 9100 2469 1 000727612 9100-035 E 10	649 1 000726032 9100-009 A 03	2420 1 000727563 9100-035 D 04	2474 1 000727617 9100-035 B 11
iry Cripi ) 2469			
Libra 9100	9100	9100	9100

593.686	527.445	560 134	543 035	
C <sub>34</sub> H <sub>38</sub> F <sub>3</sub> N <sub>3</sub> O <sub>3</sub>	C <sub>28</sub> H <sub>28</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>33</sub> H <sub>38</sub> Cl N <sub>3</sub> O <sub>3</sub>	C <sub>32</sub> H <sub>28</sub> CI F N <sub>2</sub> O <sub>3</sub>	
#NAME?	H,C,H,C,H,C,H,C,H,C,H,C,H,C,H,C,H,C,H,C	#NAME?	#NAME?	E ZI
LionID TR0910000709	H TR0910000657	но ТR0910002602	TR0910000853	μ
Canc mg/ml 0 1776	0 1776	0.1776	0.1776	
t Assay ( Spy4H	Spy4H	Spy4H	Spy4H	
Assay Resul 83 73	83.39	83 27	83.27	
Raw Data 0.178	0.188	0.157	0.28	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc mg/ml LionID 9100 709 1 000726092 9100-009 E 10 0.178 83 73 Spy4H 0 1776 TR0910000709	1 000726040 9100-009 A 04	2602 1 000727745 9100-037 B 07	1 000726236 9100-011 E 08	
ry. Cmpd 709	657		853	
Libral 9100	9100	9100	9100	

521 054	567 524	596.562	530.503
C <sub>30</sub> H <sub>33</sub> CI N <sub>2</sub> O <sub>4</sub>	он С <sub>29</sub> Н <sub>35</sub> Вг N <sub>4</sub> О <sub>3</sub>	C <sub>31</sub> H <sub>38</sub> Br N <sub>3</sub> O <sub>4</sub>	C <sub>27</sub> H <sub>36</sub> Br N <sub>3</sub> O <sub>3</sub>
#NAME?		H #NAME?	#NAME?  IN COLUMN  TO
2000862	н,о ТR0910002444	TR0910000995	TR0910001699
Conc mg/ml 0.1776	0 1776	0 1776	0 1776
f Assay Spy4H	Spy4H	Spy4H	Spy4H
Assay Resul 83.27	82.77	82.45	82.26
Raw Data 0.255	0.275	0.291	0.177
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay, Conc mg/mtl LionID 9100 862 1 000726245 9100-011 F 09 0.255 83.27 Spy4H 0.1776 TR091	2444 1 000727587 9100-035 D 07	995 1 000726378 9100-013 C 06	1699 1 000726842 9100-023 C 04
Library 9100	9100	9100	9100

499 392	555.499	513.678	507 027	
C <sub>26</sub> H <sub>24</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>	G <sub>30</sub> H <sub>32</sub> Gl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>32</sub> H <sub>39</sub> N <sub>3</sub> O <sub>3</sub>	C <sub>29</sub> H <sub>31</sub> Cl N <sub>2</sub> O <sub>4</sub>	
#NAME?	HNAME?	#NAME?	#NAME?	<u></u> -ō
LionID TR0910002997	но ТR0910000668 н <sub>ј</sub> с	TR0910002419	TR0910000868	
Conc mg/ml LionID 0 1776 TR091	0.1776	0 1776	0 1776	
	Spy4H	Ѕру4Н	Spy4H	
Assay Resul 82.26	82.04	81.80	8137	
Raw Data 0.488	0.328	0 157	0 248	
Library, Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 2997 1 000728140 9100-042 E 06 0.488 82.26 Spy4H	1 000726051 9100-009 D 05	2419 1 000727562 9100-035 C 04	1 000726251 9100-011 D 10	
/ Cmpd 2997	89 99	2419	898	
Library 9100	9100	9100	9100	

584.551	577.509	474 985	
C <sub>30</sub> H <sub>38</sub> Br N <sub>3</sub> O <sub>4</sub>	C <sub>31</sub> H <sub>30</sub> Cl <sub>2</sub> N <sub>4</sub> O <sub>3</sub>	C <sub>26</sub> H <sub>27</sub> Cl N <sub>2</sub> O <sub>3</sub>	
#NAME?	#NAME?	#NAME?	T Z Z Z
LionID TR0910002441	O= TR0910000644	I TR0910000846	Ö,
Conc mg/m 0 1776	0.1776	0.1776	
# Assay Spy4H	Spy4H	Spy4H	
Assay Resu 79 88	78 67	78.13	
Raw Data 0.199	0 211	0.31	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Concingrati LionID 9100 2441 1 000727584 9100-035 A 07 0.199 79 88 Spy4H 0 1776 TR0910002441	644 1 000726027 9100-009 D 02	846 1 000726229 9100-011 F 07	
y Cmpd 2441			
Librar 9100	9100	9100	

C <sub>29</sub> H <sub>27</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>3</sub> 536 456	C <sub>28</sub> H <sub>36</sub> Br N <sub>3</sub> O <sub>3</sub> 542.514	C <sub>28</sub> H <sub>25</sub> CI N <sub>2</sub> O <sub>3</sub> 472 97	C <sub>31</sub> H <sub>35</sub> Br N <sub>2</sub> O <sub>4</sub> 579.531	
#NAME? C <sub>29</sub> H <sub>2</sub>	O — —	Br H,C H, CH, #NAME? C28 H2	WE?	ă
	Z J		JIN O	£
Conc mg/mi LionID 0 1776 TR0910000674	76 TR0910001682	76 TR0910000870	76 TR0910002476	
III Assay Concin Spy4H 017	Spy4H 0.1776	Spy4H 0 1776	Spy4H 0.1776	
Data Assay Resu	0.193 77.18	78 76 50	35 75.71	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 674 1 000725057 9100-009 B 06 0 275 77 32 Spy4H	В 02	9100-011 F 10 0.278	9100-035 D 11 0.35	
npd Lot ExtReg 74 1 000726057	1682 1 000726825 9100-023	870 1 000726253 9100-011 F	2476 1 000727619 9100-035 D	
Library Cr 9100 6	9100 16	9100 87	9100 24	

532.081	499 392	434.577	422.566
C <sub>31</sub> H <sub>34</sub> Cl N <sub>3</sub> O <sub>3</sub>	G <sub>26</sub> H <sub>24</sub> Gl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>27</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>26</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub>
#NAME?	#NAME?	OTI	#NAME?  Hyo
LionID TR0910000869	TR0910000677	TR0910001006	TR0910001101
Concimg/ml LionID 0.1776 TR091	0.1776	0.1776	0 1776
# Assay Spy4H	Spy4H	Spy4H	Spy4H
Assay Resu 75 69	75.63	75.14	74 29
Raw Data 0 255	0.23	0.334	0 263
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 869 1 000726252 9100-011 E 10 0 255 75 69 Spy4H	7 1 000726060 9100-009 E 06	1006 1 000726389 9100-013 F 07	1101 1 000726484 9100-014 E 09
Library Cmp 9100 869	9100 677	9100 1006	9100 1101

448 603	520.07	511 662		557.525		
C <sub>28</sub> H <sub>36</sub> N <sub>2</sub> O <sub>3</sub>	С <sub>30</sub> Н <sub>34</sub> СІ N <sub>3</sub> О <sub>3</sub> Он	C <sub>32</sub> H <sub>37</sub> N <sub>3</sub> O <sub>3</sub>		C <sub>29</sub> H <sub>37</sub> Br N <sub>2</sub> O <sub>4</sub>		
#NAME?	#NAME?	kNAME?	\\ //	#NAME?		
©LionID TR0910001003	но <sup>т</sup> Н <sub>у</sub> с Н <sub>у</sub> с Н <sub>у</sub> с	TR0910002409		I R0910002450		
2 <b>o</b> nc mg/ml 0 1776	0.1776	0.1776	ļ	0 1776		
Assay ( Spy4H	Spy4H	Spy4H		Spy47		
ssay Resull 74 05	73.80	73 79	r c	9.79		
kaw Data 🛕 0.302	0.204	0 211		0.294		
Library Criptol Lot ExtReg Plate Well Raw Data Assay Result Assay Conding/finl LionID 9100 1003 1 000726386 9100-013 C 07 0.302 74 05 Spy4H 0 1776 TR091	1 000726242 9100-011 C 09	39 1 000727552 9100-035 A 03	4	00 / 2/383 9/00-035 B 08	,	
Library Cn 9100 10	9100 859	9100 2409		9100 2450		

559.541	551.478	531 073	432.561
C <sub>29</sub> H <sub>39</sub> Br N <sub>2</sub> O <sub>4</sub>	C <sub>29</sub> H <sub>31</sub> Br N <sub>2</sub> O <sub>4</sub>	G <sub>30</sub> H <sub>27</sub> CI N <sub>2</sub> O <sub>3</sub> S	C <sub>27</sub> H <sub>32</sub> N <sub>2</sub> O <sub>3</sub>
#NAME?	#NAME?	#NAME?	HNAME?
0002462	TR0910001716	TR0910000858	TR0910001030
Concimg/mil LionID 0 1776 TR091	0 1776	0.1776	0.1776
	Spy4H	Spy4H	Spy4H
Assay Resul 73 79	73 16	72.99	72.97
Raw Data 0 254	0 445	0.303	0.28
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 2462 1 000727605 9100-035 F 09 0 254 73 79 Spy4H	6 1 000726859 9100-023 D 06	i 1 000726241 9100-011 B 09	1030 1 000726413 9100-013 F 10
Library Cm∉ 9100 246	9100 1716	9100 858	9100 1030

410 511	460.614	4 60 80	533.709	
C <sub>24</sub> H <sub>30</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>29</sub> H <sub>36</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>28</sub> H <sub>29</sub> CI N <sub>2</sub> O <sub>4</sub>	C <sub>32</sub> H <sub>43</sub> N <sub>3</sub> O <sub>4</sub>	r. P.
#NAME?	HNAME?	HUAME?	#NAME?	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
Conc.mg/ml LionID 0.1776 TR0910001037	н ТR0910001075	H <sub>3</sub>	HO. TR0910002340	). H
Conc mg/m 0.1776	0 1776	0.1776	0 1776	
<b>t Assay</b> Spy4H	Spy4H	Spy4H	Spy4H	
Assay Resul 72 97	72.88	72.72	72 56	
Raw Data 0.26	e 0	0.233	0 216	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 1037 1 000726420 9100-013 E 11 0.26 72 97 Spy4H	000726458 9100-014 C 06	1 000726250 9100-011 C 10	2340 1 000727483 9100-033 D 04	
Cmpd Lo 1037 1	1075 1	1 2867 1	2340 1	
Library 9100	9100	9100	9100	

543 035	589 732	509 687	532.081	
C <sub>32</sub> H <sub>28</sub> CI F N <sub>2</sub> O <sub>3</sub>	C <sub>37</sub> H <sub>39</sub> N <sub>3</sub> O <sub>4</sub>	C <sub>30</sub> H <sub>43</sub> N <sub>3</sub> O <sub>4</sub>	C <sub>31</sub> H <sub>34</sub> Cl N <sub>3</sub> O <sub>3</sub>	
#NAME?	#NAME?	HOLD THE	#NAME?	}–⊽
LionID   TR0910000852	7R0910003731	H TR0910003019	TR0910000860	
Jone mg/ml 0.1776	0 1776	0.1776	0.1776	
Assay ( Spy4H	Spy4H	Spy4H	Зру4H	
ssay Result 72.45	72 29	72 18	72.18	
Raw Data 7 0 332	8.	0 205	0 266	
Library Cripid Lot ExtReg Plate Well Raw Data Assay Result Assay Conc mg/mil Lion ID 9100 852 1 000726235 9100-011 D 08 0 332 72.45 Spy4H 0.1776 TR0910000852	3731 1 000728874 9100-051 C 08	1 000728162 9100-042 C 09	1 000726243 9100-011 D 09	
mpd Lot 352 1	731 1	3019 1	860 1	
Library C 9100 {	9100 3	9100 3	9 00100 .	

517.461	545 514	573 061	542.514
C <sub>26</sub> H <sub>33</sub> Br N <sub>2</sub> O₄	C <sub>28</sub> H <sub>37</sub> Br N <sub>2</sub> O₄	3 CH <sub>3</sub> C33 H30 CI F N <sub>2</sub> O <sub>4</sub>	G <sub>28</sub> H <sub>36</sub> Br N <sub>3</sub> O <sub>3</sub>
#NAME?	#NAME?	<b>√</b> 5	#NAME?
LionID TR0910001708	H <sub>ب</sub> C, TR0910002468	TR0910002733	TR0910001709
Conc mg/ml LionID 0 1776 TR091	0.1776	0 1776	0 1776
t Assay S Spy4H	Spy4H	Spy4H	Spy4H
Assay Resul 72 09	71.54	71 19	71.02
Raw Data 0 379	0.28	0 429	0 383
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 1708 1 000726851 9100-023 D 05 0 379 72 09 Spy4H	58 1 000727611 9100-035 D 10	33 1 000727876 9100-039 E 03	09 1 000726852 9100-023 E 05
Library Cm 9100 170	9100 2468	9100 2733	9100 1709

532 081	487 984	461 353	460.546	
C <sub>31</sub> H <sub>34</sub> Cl N <sub>3</sub> O <sub>3</sub>	C <sub>28</sub> H <sub>26</sub> Cl N <sub>3</sub> O <sub>3</sub>	C <sub>22</sub> H <sub>25</sub> Br N <sub>2</sub> O <sub>4</sub>	C <sub>28</sub> H <sub>29</sub> F N <sub>2</sub> O <sub>3</sub>	НО
#NAME?	#NAME?	#NAME?	HOUNT OH OH WERS	
LionID TR0910000842	TR0910000874	( TR0910001717	н ТR0910001093	u.
Conc mg/ml LionID 0 1776 TR091	0.1776	0.1776	0 1776	
t Assay Spy4H	Spy4H	Spy4H	Spy4H	
Assay Resul 70.82	70.82	70.21	70.04	
Raw Data 0 215	0.256	0.329	0.307	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 842 1 000726225 9100-011 B 07 0 215 70.82 Spy4H	874 1 000726257 9100-011 B 11	1717 1 000726860 9100-023 E 06	1093 1 000726476 9100-014 E 08	
Library 9100	9100	9100	9100	

529.037	491.672	527 5	519.038
C <sub>30</sub> H <sub>29</sub> Cl N₄ O <sub>3</sub>	C <sub>30</sub> H <sub>41</sub> N <sub>3</sub> O <sub>3</sub>	C <sub>28</sub> H <sub>35</sub> Br N <sub>2</sub> O <sub>3</sub>	G <sub>30</sub> H <sub>31</sub> G N <sub>2</sub> O <sub>4</sub>
#NAME?	TI VI	CH <sub>3</sub> CH <sub>3</sub>	HNAME?
©LionID TR0910000844	TR0910001020	TR0910002443	TR0910000850
Conc mg/mil LionID 0.1776 TR091	0 1776	0 1776	0 1776
6900	Spy4H	Sру4H	Spy4H
Assay Resu 69.74	69 72	69.62	69.47
Raw Data / 0 221	0.217	0.383	0.322
Library Cripd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 844 1 000726227 9100-011 D 07 0 221 69.74 Spy4H	1020 1 000726403 9100-013 D 09	1 000727586 9100-035 C 07	1 000726233 9100-011 B 08
ary Cmpd 3 844		2443	850
(Libra)	9100	9100	9100

539.072	593.695	584.551
С <sub>33</sub> Н <sub>31</sub> С! N <sub>2</sub> О <sub>3</sub> `он	C <sub>35</sub> H <sub>36</sub> F R <sub>3</sub> O <sub>2</sub>	C <sub>30</sub> H <sub>38</sub> Br N <sub>3</sub> O <sub>4</sub>
#NAME?	#NAME?	#NAME?
0000851	TR0910003733	TR0910000981
Conc.mg/ml LionID 0 1776 TR091	0 1776	0.1776
Spy4H	Spy4H	Spy4H
Assay Resul	£6889	68.63
Raw Data 0 374	0 332	0.321
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 851 1 000726234 9100-011 C 08 0 374 69 20 Spy4H	3733 1 000728876 9100-051 E 08	981 1 000726364 9100-013 E 04
851 1	3733 1	1 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Library C	9100	9100

550.095	562.106	527.445	543 064
С <sub>31</sub> Н <sub>36</sub> СІ N <sub>3</sub> О <sub>4</sub>	G <sub>32</sub> H <sub>36</sub> Cl N <sub>3</sub> O₄	C <sub>28</sub> H <sub>28</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>31</sub> H <sub>31</sub> Cl N <sub>4</sub> O <sub>3</sub>
#NAME?	NAME?	WAME?	#NAME?
Conc.mg/mt LionID 0.1776 TR0910002739	н <sub>јс</sub> ТR0910002749	TR0910002517	TR0910000854
anc mg/ml 0.1776	0 1776	0.1776	0.1776
	Spy4H	Spy4H	Sру4H
Assay Result 68.58	68.29	68.27	67.85
Raw Data 0.205	0 252	0 402	0.269
Library Cripd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 2739 1 000727882 9100-039 C 04 0.205 68.58 Spy4H	1 000727892 9100-039 E 05	1 000727660 9100-036 E 06	1 000726237 9100-011 F 08
Стрd 2739	2749	2517	854
Library 9100	9100	9100	9100

482.621	525.689	460.546	460.546
C <sub>31</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>33</sub> H <sub>39</sub> N <sub>3</sub> O <sub>3</sub>	C <sub>28</sub> H <sub>29</sub> F N <sub>2</sub> O <sub>3</sub>	С <sub>28</sub> Н <sub>28</sub> F N <sub>2</sub> О <sub>3</sub> .Он
#NAME?	Z	#NAME?	£ £
LionID TR0910001755	TR0910002429	TR0910001092	TR0910000613
Conc mg/ml 0.1776	0 1776	0 1776	0 1776
Assay ( Spy4H	Spy4H	Spy4H	Spy4H
Assay Result 67 80	67 70	67 49	67.40
Raw Data 0 363	0 217	0 322	0 319
Library, Cmpd. Lot. ExtReg Plate Well Raw Data Assay Result Assay Conc. mg/ml. LionID 9100 1755 1 000726898 9100-023 C 11 0 363 67 80 Spy4H 0.1776 TR0910	2429 1 000727572 9100-035 E 05	1092 1 000726475 9100-014 D 08	1 000725996 9100-008 E 08
Cripd 1 1755	2429	1092	6
Library 9100	9100	0100	9100

503 039		530 665	909.609	593 686
C <sub>30</sub> H <sub>31</sub> CI N <sub>2</sub> O <sub>3</sub>		С <sub>31</sub> Н <sub>38</sub> N <sub>4</sub> O <sub>4</sub>	C <sub>34</sub> H <sub>39</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>3</sub> O <sub>4</sub> ·CH <sub>3</sub>	С <sub>34</sub> Н <sub>38</sub> F <sub>3</sub> N <sub>3</sub> O <sub>3</sub> Он Сн <sub>3</sub>
#NAME?	T Z T	#NAME?	#NAME?	#NAME?
Conc mg/mf LionID 0.1776 TR0910000845		TR0910002324	TR0910002500	TR0910000700
ടാം നമ്മി 0.1776		0.1776	0.1776	0.1776
200000		Sру4H	Sру4Н	Spy4H
Assay Resul 67.31		66.94	66.93	98 98 98
Raw Data 2 0.421		0.232	0.368	0.288
Library Cripid Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 845 1 000726228 9100-011 E 07 0.421 67.31 Spy4H		2324 1 000727467 9100-033 D 02	1 000727643 9100-036 D 04	700 1 000726083 9100-009 D 09
/ Cmpd 845			2500	
Library 9100		9100	9100	9100

450.92		565 754	502 626	569 098
C <sub>25</sub> H <sub>23</sub> CI N <sub>2</sub> O <sub>4</sub>		C <sub>36</sub> H <sub>43</sub> M <sub>3</sub> O <sub>3</sub>	С <sub>31</sub> Н <sub>36</sub> F N <sub>2</sub> О <sub>3</sub>	C <sub>34</sub> H <sub>33</sub> Cl N <sub>2</sub> O <sub>2</sub>
#NAME?	J Z Z Z	#NAME?	#NAME?	#NAME?
Conc mg/mi LionID 0 1776 TR0910000877	¥	TR0910002595 H,C,	TR0910001013	TR0910002731
Conc mg/ml 0 1776		0.1776	0.1776	0.1776
f Assay Spy4H		Spy4H	Spy4H	Spy4H
Well Raw Data Assay Result Assay		66.62	66.46	66.2 <b>6</b>
Raw Data 0 255		0.24	0.414	0.388
Library Cripid Lot ExtReg Plate Well 9100 877 1 000726260 9100-011 E 11		2595 1 000727738 9100-037 C 06	1013 1 000726396 9100-013 E 08	2731 1 000727874 9100-039 C 03
Library 9100		9100	9100	9100

483.403	569.526	442.556	531 487	518 694
C <sub>25</sub> H <sub>27</sub> Br N <sub>2</sub> O <sub>3</sub>	C <sub>31</sub> H <sub>34</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>26</sub> H <sub>30</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>27</sub> H <sub>35</sub> Br N <sub>2</sub> O <sub>4</sub>	G <sub>32</sub> H <sub>42</sub> N <sub>2</sub> O <sub>4</sub>
#NAME?	Hooth Wames	MNAME?	#NAME?  #NAME?	HOAME?  #NAME?  #NAME?  #NAME?
©LionID TR0910001710	HO TR0910000662	TR0910000731	TR0910001702	TR0910002355
Conc mg/ml LionID 0 1776 TR091	0.1776	0 1776	0.1776	0.1776
Assay C Spy4H	Spy4H	Sру4H	Ѕру4Н	Spy4H
Assay Result 66 20	6 5.85	65 76	65.66	65 53
Raw Data 0.415	0.32	0 283	0.417	0.452
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 1710 1 000726853 9100-023 F 05 0.415 66 20 Spy4H	1 000726045 9100-009 F 04	731 1 000726114 9100-010 C 03	1702 1 000726845 9100-023 F 04	1 000727498 9100-033 C 06
brany Cmpr 100 1710	9100 662	9100 731	9100 1702	9100 2355
<b>∰</b> δ	9	9	9	9

504 667	555 553	618 568	544 688
C <sub>31</sub> H <sub>40</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>30</sub> H <sub>39</sub> Br N <sub>2</sub> O <sub>3</sub>	C <sub>33</sub> H <sub>36</sub> Br N <sub>3</sub> O <sub>4</sub>	C <sub>33</sub> H <sub>40</sub> N <sub>2</sub> O <sub>5</sub>
#NAME?	HNAME?	#NAME?	H, H
LionID TR0910001955	TR0910002475	TR0910000971	H TR0910002531
Concing/mil 0 1776	0.1776	0.1776	0.1776
l Assay ( Spy4H	Spy4H	Spy4H	Spy4H
kssay Resul 65.27	65 13	65.11	65.06
Raw Data ≠ 0.353	0.305	0.379	0.302
Library Cripid Lot ExtReg Plate Well Raw Data Assay Result Assay Conc mg/ml Lion ID 1955 1 000727098 9100-028 C 06 0 353 65.27 Spy4H 0 1776 TR091	1 000727618 9100-035 C 11	1 000726354 9100-013 C 03	2531 1 000727674 9100-036 C 08
у Спрd 1955	2475	971	
Library 9100	9100	9100	9100

548 651	489.012	562.106	460 546
C <sub>32</sub> H <sub>37</sub> F N <sub>2</sub> O <sub>5</sub>	С <sub>29</sub> Н <sub>29</sub> СІ N <sub>2</sub> О <sub>3</sub>	C <sub>32</sub> H <sub>36</sub> Cl N <sub>3</sub> O <sub>4</sub>	C <sub>28</sub> H <sub>29</sub> F N <sub>2</sub> O <sub>3</sub>
#NAME?	#NAME?	#NAME?	#NAME?
Conc mg/ml LionID 0.1776 TR0910002533	TR0910000843	TR0910002740	TR0910000612
Conc mg/ml 0.1776	0.1776	0 1776	0.1776
l Assay ( Spy4H	Spy4H	Sру4 H	Spy4H
Assay Result 65 06	64 87	64.80 80	64.80
Raw Data 0.304	0 364	0 384	0.339
Library Cripd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 2533 1 000727676 9100-036 E 08 0.304 65 06 Spy4H	843 1 000726226 9100-011 C 07	2740 1 000727883 9100-039 D 04	1 000725995 9100-008 D 08
y Cmpd 2533	843		612
Librar 9100	9100	9100	9100

445.311	520.666	565.633	448.603
C <sub>21</sub> H <sub>21</sub> Br N <sub>2</sub> O <sub>4</sub>	C <sub>31</sub> H <sub>40</sub> N <sub>2</sub> O <sub>5</sub>	С <sub>32</sub> Н <sub>34</sub> F <sub>3</sub> N <sub>3</sub> О <sub>3</sub> Он	C <sub>28</sub> H <sub>35</sub> N <sub>2</sub> O <sub>3</sub>
#NAME?	#NAME?	#NAME?	#NAME?
LionID TR0910000237	HTR0910002330	TR0910004100	TR0910000595
2 <b>o</b> nc mg/ml 0 1776	0 1776	0 1776	0.1776
Assay ( Spy4H	Spy4H	Spy4H	Spy4H
Assay Resull 64.74	69.69	64.67	64 51
Raw Data 0.281	0 281	0 261	0 338
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc mg/ml LionID 9100 237 1 000725620 9100-003 E 11 0.281 64.74 Spy4H 0 1776 TR0910000237	2330 1 000727473 9100-033 B 03	4100 1 000729243 9100-057 D 04	595 1 000725978 9100-008 C 06
Library C 9100	9100	9100	9100

511.457	622 532	541 472	533 065
C <sub>27</sub> H <sub>31</sub> Br N <sub>2</sub> O <sub>3</sub>	сн, С <sub>32</sub> Н <sub>33</sub> Вг F N <sub>3</sub> О <sub>4</sub>	C <sub>29</sub> H <sub>30</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>31</sub> H <sub>33</sub> CI N <sub>2</sub> O <sub>4</sub>
#NAME?	#NAME?	Hyo-o-Hyo-o-h	SOLUTION WAMES
Cond mg/ml LionID 0 1776 TR0910002470	TR0910000973	F7 TR0910000647 H <sub>3</sub> °	TR0910000878 H <sub>3</sub>
്രാദ നയ്യിന്ന് 0 1776	0.1776	0 1776	0.1776
2002000	Spy4H	Spy4H	Spy4H
Assay Result 64.49	64.02	63.83	63 79
₹aw Data / 0 294	0.304	0 295	0.356
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 2470 1 000727613 9100-035 F 10 0 294 64.49 Spy4H	1 000726356 9100-013 E 03	1 000726030 9100-009 G 02	1 000726261 9100-011 F 11
ry Cmpd 2470	973	647	84.8
Librar 9100	9100	9100	9100

474 573	565.754	514.662	493	
С <sub>29</sub> Н <sub>31</sub> F N <sub>2</sub> О <sub>3</sub> он	C <sub>36</sub> H <sub>43</sub> N <sub>3</sub> O <sub>3</sub>	C <sub>32</sub> H <sub>38</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>28</sub> H <sub>29</sub> Cl N <sub>2</sub> O <sub>4</sub>	
#NAME?	#NAME?	#NAME?	#NAME?	~~~~ō ≻o
©LionID TR0910000573	TR0910002235	TR0910002422	TR0910000847 н <sub>ь</sub> с	
Conc mg/ml	0 1776	0.1776	0.1776	
R Assay Spy4H	Spy4H	Spy4H	Spy4H	
Assay Resul	63 29	63.53	63.52	
Raw Data / 0.359	0.239	0 259	0.292	
Ubrary Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc mg/ml LlonID 9100 573 1 000725956 9100-008 E 03 0.359 63.64 Spy4H 0.1776 TR0910	2235 1 000727378 9100-031 C 11	2422 1 000727565 9100-035 F 04	847 1 000726230 9100-011 G 07	
у. Спр <b>d</b> 573				
Librai 9100	9100	9100	9100	

502.655	595.76	463.618
C <sub>30</sub> H <sub>38</sub> N <sub>4</sub> O <sub>3</sub>	G <sub>35</sub> H <sub>37</sub> N <sub>3</sub> O <sub>4</sub> S	G <sub>28</sub> H <sub>37</sub> N <sub>3</sub> O <sub>3</sub>
#NAME?	#NAME?	#NAME? #NAME? #U.C. H.C.H.C.H.C.H.C.H.C.H.C.H.C.H.C.H.C.
Conc mg/ml LionID 0.1776 TR0910001014	TR0910003751	TR0910000589
Conc mg/ml 0.1776	0.1776	0 1776
# Assay Spy4H	Spy4H	Spy4H
Assay Resu 63 48	63.44	63 35
Raw Data 0.247	0.289	0 225
Létrary Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 1014 1 000726397 9100-013 F 08 0.247 63 48 Spy4H	000728894 9100-051 G 10	1 000725972 9100-008 E 05
1 Lot ExtReg	<del>-</del>	
Library Cmps 9100 1014	9100 3751	9100 589
00000	<b>5</b> ,	<b>5</b> ,

	593.807	499 446	477.001	523 094
	C <sub>38</sub> H <sub>47</sub> N <sub>3</sub> O <sub>3</sub>	C <sub>26</sub> H <sub>31</sub> Br N <sub>2</sub> O <sub>3</sub>	C <sub>28</sub> H <sub>29</sub> CI N <sub>2</sub> O <sub>3</sub>	C <sub>28</sub> H <sub>31</sub> Cl N <sub>2</sub> O <sub>3</sub> N
	#NAME?	#NAME?	#NAME?	#NAME?
LionID	TR0910004155	TR0910001683	TR0910000856	TR0910000865
· ·	0 1776	0 1776	0.1776	0 1776
Assay C	Spy4H	Spy4H	Spy4H	Spy4H
Assay Result	63.27	63 25	63.25	63.25
kaw Data 🗸	0 321	0.484	0.335	0 272
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay	; 1 000729298 9100-057 C 11	1 000726826 9100-023 C 02	1 000726239 9100-011 H 08	1 000726248 9100-011 A 10
Library Cmpc	9100 4155	9100 1683	9100 856	9100 865

484.593	486 609	472 582	503 434
C <sub>30</sub> H <sub>32</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>30</sub> H <sub>34</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>29</sub> H <sub>32</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>25</sub> H <sub>31</sub> Br N <sub>2</sub> O₄
#NAME?	INAME?	#NAME?	# # P P P P P P P P P P P P P P P P P P
Cond mg/ml LionID 0.1776 TR0910001076	TR0910002427	TR0910000596	TR0910001707
Conc mg/ml 0.1776	0.1776	0.1776	0.1776
	Sру4H	Spy4H	Spy4H
Assay Result 63:24	63 21	63.06	62.99
Raw Data 0.291	0 268	0.286	0.352
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 1076 1 000726459 9100-014 D 06 0.291 63:24 Spy4H	2427 1 000727570 9100-035 C 05	1 000725979 9100-008 D 06	1707 1 000726850 9100-023 C 05
, Cmpd 1076		596	
Library 9100	9100	9100	9100

560.134	436.592	492 656	486.584	
C <sub>33</sub> H <sub>38</sub> Cl N <sub>3</sub> O <sub>3</sub>	C <sub>27</sub> H <sub>36</sub> N <sub>2</sub> O <sub>3</sub>	G <sub>30</sub> H <sub>40</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>30</sub> H <sub>31</sub> F N <sub>2</sub> O <sub>3</sub>	u.
#NAME?	#NAME?	H <sub>2</sub> C <sub>H</sub>	#NAME?	A. A.
LionID TR0910002629	H <sub>3</sub> C	H <sub>3</sub> C	H <sub>3</sub> C	ř. P
Conc mg/ml LionID 0 1776 TR091	0 1776	0.1776	0.1776	
Assay ( Spy4H	Spy4H	Spy4H	Spy4H	
Assay Result 62.89	62.77	62.40	62.39	
Raw Data / 0.275	0 326	0 295	0 231	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 2629 1 000727772 9100-037 E 10 0.275 62.89 Spy4H	581 1 000725964 9100-008 E 04	1038 1 000726421 9100-013 F 11	773 1 000726156 9100-010 E 08	
Library Cn 9100 26	9100	9100 10	77 0016	

500.635	571 552	466 618	446 588	
C <sub>31</sub> H <sub>36</sub> N <sub>2</sub> O <sub>4</sub>	O <sub>30</sub> H <sub>39</sub> Br N <sub>2</sub> O <sub>4</sub>	С <sub>28</sub> Н <sub>38</sub> N <sub>2</sub> О <sub>4</sub>	C <sub>28</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub>	
#NAME?	HAMME?	#NAME?	#NAME?	Z Z D
LionID TR0910001971	н,о TR0910002478 Н,о	TR0910001028	TR0910001045	
Conc mg/ml 0 1776	0.1776	0.1776	0.1776	
: Assay ( Spy4H	Spy4H	Spy4H	Spy4H	
Assay Resul 61.99	61.92	98.	61 83	
Raw Data 0 296	0.265	0.257	0 331	,
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc mg/mi LionID 9100 1971 1 000727114 9100-028 C 08 0 296 61.99 Spy4H 0 1776 TR0910001971	2478 1 000727621 9100-035 F 11	1028 1 000726411 9100-013 D 10	1045 1 000726428 9100-014 E 02	
Library 9100	9100	9100	9100	

456.583	467.361	474.985	555 715	
C <sub>29</sub> H <sub>32</sub> N <sub>2</sub> O <sub>3</sub>	он С <sub>24</sub> Н <sub>23</sub> Br N <sub>2</sub> О <sub>3</sub>	C <sub>28</sub> H <sub>27</sub> Cl N <sub>2</sub> O <sub>3</sub>	C <sub>34</sub> H <sub>41</sub> N <sub>3</sub> O <sub>4</sub>	
#NAME?	HNAME?	Br. HAME?	#NAME?	
LionID TR0910001091	H, TR0910000230	HO TR0910000855	7R0910003741	
Sonc mg/ml 0 1776	0 1776	0.1776	0.1776	
Assay C Spy4H	Spy4H	Spy4H	Spy4H	
kssay Resull 61.83	61.69	61 63	6 0 0	
₹aw Data 🖋 0 346	0 323	0 344	0.246	
Library Cmpd Lot ExtReg Riate Well Raw Data Assay Result Assay Conc mg/ml LionID 9100 1091 1 000726474 9100-014 C 08 0 346 61.83 Spy4H 0 1776 TR0910	230 1 000725613 9100-003 F 10	855 1 000726238 9100-011 G 08	3741 1 000728884 9100-051 E 09	
Librany 9100	9100	9100	9100	

591 723	561 099	599.566	479.661
C <sub>37</sub> H <sub>38</sub> F N <sub>3</sub> O <sub>3</sub>	C <sub>31</sub> H <sub>29</sub> CI N <sub>2</sub> O <sub>4</sub> S	G <sub>30</sub> H <sub>39</sub> Br N₄ O₄	C <sub>29</sub> H <sub>41</sub> N <sub>3</sub> O <sub>3</sub>
#NAME?	#NAME?	#NAME?	#NAME?
LionID TR0910002213	TR0910002738	CI TR0910000979	H <sub>3</sub> C, TR0910001019 H <sub>3</sub> C,
onc.mg/mi 0 1776	0.1776	0 1776	0.1776
Assay C Spy4H	Spy4H	Spy4H	Spy4H
Assay Result 61.41	61.32	61.31	61.31
Raw Data 0 271	0.398	0 245	0.239
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc.mg/mil LionID 9100 2213 1 000727356 9100-031 E 08 0 271 61.41 Spy4H 0 1776 TR091	2738 1 000727881 9100-039 B 04	979 1 000726362 9100-013 C 04	1019 1 000726402 9100-013 C 09
Library C	9100	9100	9100

484.472	581 523	581.675	506.599	
C <sub>26</sub> H <sub>23</sub> F <sub>3</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>31</sub> H <sub>34</sub> Br F N <sub>2</sub> O <sub>3</sub>	С <sub>33</sub> Н <sub>38</sub> F <sub>3</sub> N <sub>3</sub> О <sub>3</sub> он он	C <sub>32</sub> H <sub>30</sub> N <sub>2</sub> O <sub>4</sub>	
#NAME?	#NAME?	#NAME?	#NAME?	T z
LionID TR0910004117	TR0910002452	TR0910000699 البادر البادر	TR0910001756	
onc mg/ml 0.1776	0 1776	0 1776	0.1776	
Assay C Spy4H	Spy4H	Spy4H	Spy4H	
Assay Result 61.30	61 28	61.13		
Raw Data 0.279	0.327	0.215	0 289	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc.mg/mil LionID 9100 4117 1 000729260 9100-057 E 06 0.279 61.30 Spy4H 0.1776 TR0910004117	1 000727595 9100-035 D 08	1 000726082 9100-009 C 09	5 1 000726899 9100-023 D 11	
rary Cmpd 10 4117	00 2452	9100 699	9100 1756	
910 910	9100	911	<u>1</u>	

491.672	488 628	422 566	553 743
C <sub>30</sub> H <sub>41</sub> N <sub>3</sub> O <sub>3</sub>	C <sub>29</sub> H <sub>36</sub> N <sub>4</sub> O <sub>3</sub>	C <sub>26</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>35</sub> H <sub>43</sub> N <sub>3</sub> O <sub>3</sub>
#NAME?	TI WAME:	#NAME?	#NAME?
Conc mg/ml LionID 0.1776 TR0910001002	TR0910001004	TR0910000621	TR0910002221
Sonc mg/ml 0.1776	0.1776	0.1776	0.1776
Assay ( Spy4H	Spy4H	Spy4H	Spy4H
Assay Result 61.04	90 19	61.03	60.87
Raw Data 0.24	0.242	0.29	0 251
Library Cmpd Lot ExtReg Rate Well Raw Data Assay 8csult Assay 9100 1002 1 000726385 9100-013 B 07 0.24 61.04 Spy4H	1004 1 000726387 9100-013 D 07	621 1 000726004 9100-008 E 09	2221 1 000727364 9100-031 E 09
Library ( 9100	9100	9100	9100

579.659		533.709	566 526		518.054	
C <sub>33</sub> H <sub>36</sub> F <sub>3</sub> N <sub>3</sub> O <sub>3</sub>		C <sub>32</sub> H <sub>43</sub> N <sub>3</sub> O <sub>4</sub>	C <sub>31</sub> H <sub>33</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>3</sub>		C <sub>30</sub> H <sub>32</sub> CI N <sub>3</sub> O <sub>3</sub>	Ŷ
#NAME?	HEZON LANGE OF THE PROPERTY OF	#NAME?	#NAME?	To T	#NAME?	To T
Conc mg/ml LionID 0 1776 TR0910000689	Ĭ	TR0910002322	TR0910002969	Ĭ'	TR0910000849	Ĭ
Conc mg/m 0 1776		0 1776	0 1776		0 1776	
30000		Spy4H	Spy4H		Spy4H	
Vell Raw Data Assay Result Assay 08 0.249 60 79 Spy4H		60 75	60 74		60.55	
Raw Data 0.249		0 255	0 328		0 295	
Library Cripd Lot ExtReg Plate Well 9100 689 1 000726072 9100-009 A 08		2322 1 000727465 9100-033 B 02	2969 1 000728112 9100-042 A 03		849 1 000726232 9100-011 A 08	
Library Cm 9100 68		9100 235	9100 296		9100 84	

491.028	507.027	420.55	541.688	
C <sub>29</sub> H <sub>31</sub> Cl N <sub>2</sub> O <sub>3</sub>	C <sub>29</sub> H <sub>31</sub> Cl N <sub>2</sub> O <sub>4</sub>	C <sub>26</sub> H <sub>32</sub> N <sub>2</sub> O <sub>3</sub>	G <sub>33</sub> H <sub>39</sub> N <sub>3</sub> O₄	
#NAME?	HOUSE THE STATE OF	#NAME?	#NAME?	
LionID TR0910000866	ተ,c ዜያ TR0910000873 ዜታር	TR0910000605	TR0910003752	
onc mg/ml 0 1776	0 1776	0.1776	0.1776	
Assay C Spy4H	Spy4H	Spy4H	Spy4H	
kssay Result 60.55	60 55	60.46	60 38	
<b>≷aw Data ≯</b> 0 398	0.371	0 254	0 258	
Library Cripid Lot ExtReg Plate Well Raw Data Assay Result Assay Cond mg/mil Lion ID 9100 866 1 000726249 9100-011 B 10 0 398 60.55 Spy4H 0 1776 TR0910000866	1 000726256 9100-011 A 11	1 000725988 9100-008 E 07	1 000728895 9100-051 H 10	
Library Cmps 9100 866	9100 873	9100 605	9100 3752	

543.542	552.466	606.706	534 653	
C <sub>29</sub> H <sub>39</sub> Br N <sub>2</sub> O <sub>3</sub>	C <sub>28</sub> H <sub>30</sub> Br N <sub>3</sub> O <sub>4</sub>	C <sub>34</sub> H <sub>35</sub> F <sub>3</sub> N <sub>2</sub> O <sub>3</sub> S	C <sub>34</sub> H <sub>34</sub> N <sub>2</sub> O <sub>2</sub>	
#NAME?	#NAME?	£	r J	**************************************
LionID TR0910002461	TR0910000990	TR0910000711	TR0910002436	
oncing/ml 0 1776	0.1776	0 1776	0 1776	
Assay C Spy4H	Spy4H	Sру4Н	Spy4H	
Assay Result 60.32	60 23	60.12	00 09	
<b>Raw Data</b> 0 402	0 26	0 388	0 41.6 41.6	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc.mg/mil LionID 9100 2461 1 000727604 9100-035 E 09 0 402 60.32 Spy4H 0 1776 TR0910	990 1 000726373 9100-013 F 05	711 1 000726094 9100-009 G 10	2436 1 000727579 9100-035 D 06	
Library Cn 9100 24	9100	9100 7	9100 24	

521.698	474.573	448.603	478.973	505.055
C <sub>31</sub> H <sub>43</sub> N <sub>3</sub> O <sub>4</sub>	C <sub>29</sub> H <sub>31</sub> F N <sub>2</sub> O <sub>3</sub>	С <sub>28</sub> Н <sub>36</sub> N <sub>2</sub> О <sub>3</sub> .он .сн <sub>3</sub>	G <sub>27</sub> H <sub>27</sub> Cl N <sub>2</sub> O <sub>4</sub>	C <sub>30</sub> H <sub>33</sub> Cl N <sub>2</sub> O <sub>3</sub>
#NAME?	#NAME?	_ \ /	#NAME?	#NAME?
LionID TR0910002339 H <sub>3</sub> C H <sub>3</sub> C	TR0910000572	TR0910001061	ТR0910000857 Ho	TR0910000861
<b>.o</b> na mg/ml 0 1776	0.1776	0.1776	0.1776	0 1776
Assay C Spy4H	Sру4Н	Spy4H	Spy4H	Sру44
Assay Result 59 91	88 88	59.84	59 74	59.74
Raw Data , 0.257	0.338	0.403	0.265	0.427
Library Cripd Lot ExtReg Plate Well Raw Data Assay Resulf Assay Corc.mg/ml LionID 9100 2339 1 000727482 9100-033 C 04 0.257 59 91 Spy4H 0 1776 TR0910	72 1 000725955 9100-008 D 03	1061 1 000726444 9100-014 E 04	857 1 000726240 9100-011 A 09	861 1 000726244 9100-011 E 09
Library Cri 9100 23	9100 572	9100 10	9100	9100

478.973	620 541	542.514
C <sub>27</sub> H <sub>27</sub> Cl N <sub>2</sub> O <sub>4</sub>	C <sub>32</sub> H <sub>34</sub> Br N <sub>3</sub> O <sub>5</sub>	C <sub>28</sub> H <sub>36</sub> Br N <sub>3</sub> O <sub>3</sub>
#NAME?		HNAME?
Well Raw Data Assay Result Assay Conc mg/ml LionID E 11 0.35 59 73 Spy4H 0 1776 TR0910002637	TR0910000996	TR0910001700
Conc mg/ml 0 1776	0 1776	. 0 1776
Assay Spy4H	Spy4H	Spy4H
Assay Result 59 73	69 69	59 50
Raw Data 0.35	0.279	0.316
Library Cripd Lot ExtReg Plate Well 9100 2637 1 000727780 9100-037 E 11	1 000726379 9100-013 D 06	1700 1 000726843 9100-023 D 04
of ExtReg 1 000727	1 000726	1 00072
Cmpd 1. 2637	9 0 0	1700
Library 9100	0100	9100

534.625	594 579	586 523
C <sub>31</sub> H <sub>35</sub> F N <sub>2</sub> O <sub>5</sub>	C <sub>33</sub> H <sub>37</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>3</sub>	C <sub>29</sub> H <sub>36</sub> Br N <sub>3</sub> O <sub>5</sub>
#NAME?	#NAME?	#NAME?
Raw Data Assay Result Assay Conc.mg/mi LionID 0.38 59.47 Spy4H 0.1776 TR0910000813	TR0910002489	TR0910000988
. தாக <b>ரா</b> ர்	0.1776	0 1776
Spy4H	Spy4H	Spy4H
Assay Result 59.47	59 45	59 42
Raw Data 0 38	0.361	0 247
Library, Crripd Lot ExtReg Plate Well 9100 813 1 000726196 9100-011 E 03	1 000727632 9100-036 A 03	988 1 000726371 9100-013 D 05
Compd L 813 '	2489	
Library, 9100	9100	9100

484.593	526.673	434.577	515.489	
C <sub>30</sub> H <sub>32</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>33</sub> H <sub>38</sub> N <sub>2</sub> O <sub>4</sub>	G <sub>27</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>27</sub> H <sub>35</sub> Br N <sub>2</sub> O <sub>3</sub>	
#NAME?	#NAME?	HOAME?	H <sub>3</sub> CH MAME?	
LionID TR0910003236	HO,	H <sub>3</sub> C	H <sub>3</sub> . TR0910001701	±°
<b>Jo</b> ne <b>mg/m</b> l 0 1776	0 1776	0.1776	0.1776	
Assay ( Spy4H	Spy4H	Spy4H	Spy4H	
Well Raw Data Assay Result Assay Concingfin LionID D 06 0 304 59.42 Spy4H 0 1776 TR091	98 39	59.28	59 24	
Raw Data 0 304	0 285	0.262	0 512	
Library, Cripd Lot ExtReg Plate Well 1 9100 3236 1 000728379 9100-045 D 06	2438 1 000727581 9100-035 F 06	1 000726498 9100-014 C 11	1701 1 000726844 9100-023 E 04	
Cmpd Lot 3236 1	2438 1	£ 6 7		
Library 9100	9100	9100	9100	

543 498	508.59	508 655	480.645
C <sub>28</sub> H <sub>35</sub> Br N <sub>2</sub> O <sub>4</sub>	С <sub>32</sub> Н <sub>29</sub> F N <sub>2</sub> О <sub>3</sub>	C <sub>30</sub> H <sub>40</sub> N <sub>2</sub> O <sub>5</sub>	C <sub>29</sub> H <sub>40</sub> N <sub>2</sub> O <sub>4</sub>
#NAME?	WAME?	#NAME?	#NAME?
ELionID TR0910001718	HR0910001733	TR0910000835	TR0910001022
<mark>രംഗ ന്നൂന്നി</mark> 0.1776	0 1776	0.1776	0.1776
Assay C Spy4H	Spy4H	Spy4H	Spy4H
Assay Result 59.24	59.24	59 20	56 15
Raw Data 0 364	0.331	0.321	0 261
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Cond mg/ml LionID 9100 1718 1 000726861 9100-023 F 06 0 364 59.24 Spy4H 0.1776 TR0910	1 000726876 9100-023 E 08	1 000726218 9100-011 C 06	1022 1 000726405 9100-013 F 09
Cmpd Lt 1718 1	1733 1	835 1	1022 1
Library 9100	9100	9100	9100

581 551	454 567	498.418	
C <sub>30</sub> H <sub>37</sub> Br N <sub>4</sub> O <sub>3</sub>	C <sub>29</sub> H <sub>30</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>25</sub> H <sub>26</sub> Br N <sub>3</sub> O <sub>3</sub>	
#NAME?	#NAME?	HOWE?	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
Conc.mg/m/LionID 0 1776 TR0910002454	H TR0910001723	H TR0910001714	60
മംബം <b>നൂ</b> ണി 0 1776	0 1776	0.1776	
f Assay Spy4H	8 Py4k	Spy4H	
Well Raw Data Assay Result Assay 5 F 08 0 283 59 04 Spy4H	58.97	58.70	
Raw Data 0 283	0.289	0.335	,
Library Cripid Lot ExtReg Plate Well 9100 2454 1 000727597 9100-035 F 08	1723 1 000726866 9100-023 C 07	1714 1 000726857 9100-023 B 06	
Lot EXE	7 000	4 - 000	
ary Cmpi 0 2454			
910 1010	9100	9100	-

590 643	420.55	472.582	517.066
G <sub>33</sub> H <sub>33</sub> F <sub>3</sub> N₄ O <sub>3</sub>	C <sub>26</sub> H <sub>32</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>29</sub> H <sub>32</sub> N <sub>2</sub> O <sub>4</sub>	G <sub>31</sub> H <sub>33</sub> Cl N <sub>2</sub> O <sub>3</sub>
#NAME?	"O " " " " " " " " " " " " " " " " " "	#NAME?	#NAME?
LionID TR0910000684	TR0910001085	TR0910002417	TR0910000848
Concing/mil LionID 0.1776 TR091	0 1776	0.1776	0.1776
99900	Spy4H	8ру4н	Spy4H
Assay Result Assay 58.43 Spy4H	58 43	58.40	58 38
	0 26	0.302	0 279
Library Cmpd Lot ExtReg Plate Well Raw Data 9100 684 1 000726067 9100-009 D 07 0 231	1085 1 000726468 9100-014 E 07	2417 1 000727560 9100-035 A 04	848 1 000726231 9100-011 H 07
Library 9100	9100	9100	9100

605.563	526.472	513.429	521.698	
C33 H34 Cl2 N4 O3	C <sub>27</sub> H <sub>32</sub> Br N <sub>3</sub> O <sub>3</sub>	C <sub>25</sub> H <sub>29</sub> Br N <sub>2</sub> O <sub>4</sub>	G <sub>31</sub> H <sub>43</sub> N <sub>3</sub> O <sub>4</sub>	
#NAME?	#NAME?	#NAME?	HNAME?	H D T D T D T D T D T D T D T D T D T D
LionID TR0910002484	TR0910000202	TR0910000210	C TR0910003029	I
2 <b>o</b> nc mg/ml 0 1776		0.1776	0 1776	
L Assay ( Spy4H	Spy4H	Spy4H	Spy4H	
tssay Resul 58 38	58.34	58.34	58.29	
Raw Data / 0319	0 243	0.331	0 279	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc mg/ml LionID 9100 2484 1 000727627 9100-036 D 02 0 319 58 38 Spy4H 0 1776 TR091	1 000725585 9100-003 B 07	1 000725593 9100-003 B 08	3029 1 000728172 9100-042 E 10	
ry Cmpd 2484	202	210		
Librai 9100	9100	9100	9100	

504.599	434 577	591 723	569.561	
C <sub>30</sub> H <sub>33</sub> F N <sub>2</sub> O <sub>4</sub>	G <sub>27</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>37</sub> H <sub>38</sub> F N <sub>3</sub> O <sub>3</sub>	C <sub>29</sub> H <sub>33</sub> Br N <sub>2</sub> O <sub>3</sub> S	
#NAME?	#NAME?	#NAME?	#NAME?	<b>(</b>
Conc mg/mi LionID 0 1776 TR0910001972	F TR0910000635	Н <sub>у</sub> С,	6 6.1776 TR0910002458	
2 <b>o</b> no m <b>g/m</b> l 0 1776	0.1776	0.1776	0.1776	
Assay ( Spy4H	Spy4H	Spy4H	Spy4H	
ssay Result 58.15	41 85	58.14	58.08	
aw Data . A 0.284	0.326	0.281	0 285	
Library Cmpd Lot ExtReg Plate Well RawData Assay Result Assay 9100 1972 1 000727115 9100-028 D 08 0.284 58.15 Spy4H	635 1 000726018 9100-008 C 11	2212 1 000727355 9100-031 D 08	2458 1 000727601 9100-035 B 09	
Library ( 9100	0100	9100 2	9100 2	,

611.577	513.473	561.581	
C <sub>31</sub> H <sub>39</sub> Br N <sub>4</sub> O <sub>4</sub>	C <sub>27</sub> H <sub>33</sub> Br N <sub>2</sub> O <sub>3</sub>	C <sub>28</sub> H <sub>3</sub> , Br N <sub>2</sub> O <sub>3</sub> S	
#NAME?	H <sub>3</sub> C N HO #NAME?	#NAME?	T Z Z O
Cons.mg/mi LionID 0 1776 TR0910000980	Н <sub>3</sub> С	H <sub>2</sub> C	g, T
Conc mg/ml 0 1776	0.1776	0 1776	
# Assay Spy4H	Spy4H	Spy4H	
Assay Resu 58 06	67.76	57 76	
Raw Dafa 0 254	0.408	0 25	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 980 1 000726363 9100-013 D 04 0 254 58 06 Spy4H	2446 1 000727589 9100-035 F 07	2465 1 000727608 9100-035 A 10	
Lot ExtReg 1 0007263	1 0007275	1 0007276	
y Crapd 980			
Librar 9100	9100	9100	

593.695	510 674	530.661
C <sub>36</sub> H <sub>36</sub> F N <sub>3</sub> O₄	C <sub>33</sub> H <sub>38</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>32</sub> H <sub>36</sub> N <sub>2</sub> O <sub>5</sub> C <sub>41</sub> C <sub>42</sub> C <sub>42</sub>
#NAME?	#NAME?	#NAME?
Well Raw Data Assay Result Assay Conc right LionID D 08 0 312 57.63 Spy4H 0.1776 TR0910003732	TR0910002435	TR0910000811
Conc mg/ml 0.1776	0 1776	0.1776
# Assay Spy4H	Spy4H	Spy4H
Assay Resu 57.63	57.43	57.30
Raw Data 0 312	0.395	0.377
Library Cmpd Lot ExtReg Plate Well 9100 3732 1 000728875 9100-051 D 08	2435 1 000727578 9100-035 C 06	1 000726194 9100-011 C 03
c Cot E	10 1 0	
y Cmp 3732		811
Librar 9100	9100	9100

536.456	560.134	580.769	565.633	
C <sub>29</sub> H <sub>27</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>3</sub>	C <sub>33</sub> H <sub>38</sub> Cl N <sub>3</sub> O <sub>3</sub>	C <sub>36</sub> H <sub>44</sub> N <sub>4</sub> O <sub>3</sub>	C <sub>32</sub> H <sub>34</sub> F <sub>3</sub> N <sub>3</sub> O <sub>3</sub>	
#NAME?	HNAME?	#WAM#	#NAME?	FO NI
©LionID TR0910002994	HO TR0910002620	TR0910002580	TR0910004082	
Conc.mg/m 0.1776	0.1776	0 1776	0 1776	
# Assay Spy4H	Spy4H	Spy4H	Spy4H	
Assay Resu 57.20	57.14		56 80	
Raw Data 0 413	0.268	0.243	0 248	
Library         Crippd Lot ExtReg         Plate         Well         Raw Data         Assay Result         Assay         Conc.mg/ml         LionID           9100         2994         1         000728137         9100-042         B 06         0 413         57.20         Spy4H         0 1776         TR091	2620 1 000727763 9100-037 D 09	2580 1 000727723 9100-037 D 04	4082 1 000729225 9100-057 B 02	
Library Cn 9100 29	9100 26	9100 25	9100 40	

541 044	579.697	573 061
C <sub>32</sub> H <sub>29</sub> CI N <sub>2</sub> O <sub>4</sub>	O <sub>24</sub> H <sub>37</sub> N <sub>5</sub> O <sub>4</sub>	C <sub>33</sub> H <sub>30</sub> CI F N <sub>2</sub> O <sub>4</sub>
#NAME?	T Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	#NAME?
Well Raw Data Assay Result Assay Concregitat LionID D 11 0.432 56.76 Spy4H 0.1776 TR0910000876	TR0910003724	TR0910002732
С <b>о</b> пс <b>тр</b> /ml 0.1776	0.1776	0.1776
R Assay Spy4H	Spy4H	Spy4H
Assay Resu 56.76	56.72	56.68
Raw Data 0.432	0.252	0.457
Library Cmpd Lot ExtReg Plate Well 9100 876 1 000726259 9100-011 D 11	3724 1 000728867 9100-051 D 07	2732 1 000727875 9100-039 D 03
y Crapd 8 876		
Librar 9100	9100	9100

430.501	532.633	1 2 4 5 1
C <sub>26</sub> H <sub>26</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>31</sub> H <sub>36</sub> N <sub>2</sub> O <sub>6</sub>	C <sub>31</sub> H <sub>29</sub> Cl N <sub>2</sub> O <sub>3</sub> S
#NAME?	#NAME?	FÖ-O-TE WAME OF THE OF
LionID TR0910000196	TR0910000836	TR0910000871
<mark>onc നൂ<i>ന്ന്</i> 0 1776</mark>	0.1776	0 1776
Assay ( Spy4H	Spy4H	opy4H
Assay Resull 56 51	56.49	56 49
Raw Data 0 252	0 304	0 336
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc.mg/mil LionID 9100 196 1 000725579 9100-003 D 06 0 252 56 51 Spy4H 0 1776 TR0910000196	1 000726219 9100-011 D 06	871 1 000726254 9100-011 G 10
Cript (	836	871
Library 9100	9100	9100

581.523		486 584	458.555		530,416	
C <sub>31</sub> H <sub>34</sub> Br F N <sub>2</sub> O <sub>3</sub>		С <sub>30</sub> H <sub>31</sub> F N <sub>2</sub> О <sub>3</sub> он сн,	C <sub>28</sub> H <sub>30</sub> N <sub>2</sub> O <sub>4</sub>		$C_{25}$ $H_{28}$ Br $N_3$ $O_5$	
#NAME?	# ZT Z = 0	#NAME?	#NAME?	F. ST. F.	#NAME?	Ć
LionID TR0910002453	Ľ	TR0910001053	TR0910001116		TR0910000997	
Conc mg/ml LionID 0.1776 TR091		0.1776	0.1776		0.1776	
# Assay Spy4H		Spy4H	Spy4H		Spy4H	
Assay Resu 56.47		56 44	56.44		56.44	
Raw Data 0.43		0.478	0.265		0.254	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 2453 1 000727596 9100-035 E 08 0.43 56.47 Spy4H		1053 1 000726436 9100-014 E 03	1116 1 000726499 9100-014 D 11		997 1 000726380 9100-013 E 06	
Library 4		9100	9100		9100	

434.577	502.995	496 644	611 577	
C <sub>27</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>29</sub> H <sub>27</sub> Cl N <sub>2</sub> O₄	C <sub>29</sub> H <sub>40</sub> N <sub>2</sub> O <sub>5</sub>	C <sub>31</sub> H <sub>39</sub> Br N <sub>4</sub> O <sub>4</sub>	
#NAME?	HIND HIS HOLY	#NAME?	HJC H CLA	•
©LionID TR0910000565	TR0910002750	TR0910000821	TR0910000989	
2 <b>o</b> nc.mg/ml 0 1776	0 1776	0 1776	0 1776	
L Assay ( Spy4H	Spy4H	Spy4H	Spy4H	
Assay Resull 56.40	99 30	56 22	56.17	
Raw Data 0 304	0 457	0.322	0 257	
Library Cripid Lot ExtReg Rate Well Raw Data Assay Result Assay Conc.mg/mil. LionID 9100 565 1 000725948 9100-008 E 02 0 304 56.40 Spy4H 0 1776 TR091	2750 1 000727893 9100-039 F 05	821 1 000726204 9100-011 E 04	989 1 000726372 9100-013 E 05	
pod Lot E	50 1 0	-	0 -	
.brary Сл 1100 56	9100 277	9100 82	9100	
U)	0,	33	0)	

517.461	382 457	541.688	580.552
C <sub>26</sub> H <sub>33</sub> Br N <sub>2</sub> O <sub>4</sub>	G <sub>22</sub> H <sub>26</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>33</sub> H <sub>39</sub> N <sub>3</sub> O <sub>4</sub>	C <sub>32</sub> H <sub>35</sub> CL <sub>2</sub> N <sub>3</sub> O <sub>3</sub>
#NAME?	#NAME?	HO HO HOLD HOLD HOLD HOLD HOLD HOLD HOLD	Hydrame?
LionID TR0910002457	TR0910000597	н ТR0910003746	TR091000660
<b>Co</b> nc <b>mg/ml</b> 0 1776	0.1776	0 1776	0.1776
f Assay Spy4H	Spy4H	Spy4H	Spy4H
Assay Resu 56 15	56.11	56.11	56.07
Raw Data 0 275	0.25	0.268	0.433
Library Cripid Lot ExtReg Plate Well Raw Data Assay Result Assay Conc.mg/ml LionID 9100 2457 1 000727600 9100-035 A 09 0 275 56 15 Spy4H 0 1776 TR091	1 000725980 9100-008 E 06	3 1 000728889 9100-051 B 10	1 000726043 9100-009 D 04
Library Crip 9100 245	9100 597	9100 3746	9100 660

510 671	432.561	572 497	482.621	
C <sub>30</sub> H <sub>42</sub> N <sub>2</sub> O <sub>5</sub>	сн <sub>3</sub> С <sub>27</sub> Н <sub>32</sub> N <sub>2</sub> О <sub>3</sub>	C <sub>28</sub> H <sub>24</sub> Br N <sub>3</sub> O <sub>5</sub>	C <sub>31</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub>	
#NAME?	#NAME?	HOAME?	HNAME?	
LionID TR0910002541	H TR0910003203	н ТR0910000987	H TR0910002403	r
Conc mg/ml LionID 0 1776 TR091	0.1776	0.1776	0 1776	
	Spy4H	Spy4H	Spy4H	
Assay Result 55 98	55.92	55.89	55. 83	
Raw Data 6 0.289	0.392	0.265	0 434	
Library Crrpd Lot ExtReg Rate Well Raw Data Assay Result Assay 9100 2541 1 000727684 9100-036 E 09 0.289 55 98 Spy4H	3203 1 000728346 9100-045 C 02	1 000726370 9100-013 C 05	2403 1 000727546 9100-035 C 02	
5d -	5.		. E	
25 25	320	786		
Library 9100	9100	9100	9100	

596 724	581 734	589.732
C <sub>35</sub> H <sub>40</sub> N <sub>4</sub> O <sub>5</sub>	C <sub>34</sub> H <sub>35</sub> N <sub>3</sub> O <sub>4</sub> S	C <sub>37</sub> H <sub>38</sub> N <sub>3</sub> O <sub>4</sub>
#NAME?	HAME?	#NAME?
LionID TR0910003721	H TR0910003738	TR0910002596
Conc.mg/ml.LionID 0.1776 TR091		0.1776
	Spy4H	Spy4H
Assay Resul 55 80	55 80	55.71
Raw Data 0.298	0.275	0 263
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 3721 1 000728864 9100-051 A 07 0.298 55 80 Spy4H	9100-051 B 09	000727739 9100-037 D 06
ot ExtReg   000728864	3738 1 000728881 9100-051 B	000727739
Cmpd L 3721 1	3738 1	2596 1
Library 9100	9100	000

448 603	460 614	582 741
C <sub>28</sub> H <sub>36</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>29</sub> H <sub>36</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>35</sub> H <sub>42</sub> N <sub>4</sub> O <sub>4</sub>
#NAME?	#NAME?	#NAME?
Well Raw Data Assay Result Assay Conc mg/mt LionID E 04 0.375 55.66 Spy4H 0.1776 TR0910003221	TR0910003235	TR0910003722
Сопс тg/т 0.1776	0.1776	0.1776
It Assay Spy4H	Spy4H	Spy4H
Assay Resu 55.66	55 66	55,50
Raw Data 0.375	0.352	0.26
Library Cripd Lot ExtReg Plate Well 9100 3221 1 000728364 9100-045 E 04	3235 1 000728378 9100-045 C 06	3722 1 000728865 9100-051 B 07
npd Lot 21 1	35 1 (	.22 1 (
Library Cr 9100 32	9100 32	9100 37

582.659 59.059	482.621	416.518	476 613
C <sub>33</sub> H <sub>37</sub> F <sub>3</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>31</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub> O <sub>3</sub> O <sub>4</sub> O <sub>4</sub> O <sub>5</sub>	C <sub>26</sub> H <sub>28</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>29</sub> H <sub>36</sub> N <sub>2</sub> O <sub>4</sub>
#NAME?	#NAME?	#NAME?	#NAME?  #NAME?  #NAME?  #NAME?
0000702	TR0910001051	TR0910001070	TR0910001078
Sonc mg/mi	0 1776	0.1776	0 1776
Assay Spy4H	Spy4H	Spy4H	Spy4H
Assay Resul	55 31	55.31	55.31
Raw Data 0 29	0 422	0.255	0.255
Extrary Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc mg/mil LionID 9100 702 1 000726085 9100-009 F 09 0 29 55.40 Spy4H 0.1776 TR0910	1051 1 000726434 9100-014 C 03	1070 1 000726453 9100-014 F 05	'8 1 000726461 9100-014 F 06
Library Cm, 9100 70,	9100 105	9100 107	9100 1078

553.699		555 715	
C <sub>34</sub> H <sub>39</sub> N <sub>3</sub> O <sub>4</sub>	C <sub>34</sub> H <sub>40</sub> N <sub>4</sub> O <sub>4</sub>	C <sub>34</sub> H <sub>41</sub> N <sub>3</sub> O <sub>4</sub>	
#NAME?	#NAME?	H, C, N, WH	
Conc mg/ml LionID 0.1776 TR0910003725	TR0910003729	TR0910003744	
Conc mg/m 0.1776	0.1776	0 1776	
# Assay Spy4H	Spy4H	Spy4H	
Assay Resu 55.19	55 19		
Raw Data 0.264	0.301	0 268	
Library Cmpd Lot ExtReg Rate Well Raw Data Assay Result Assay 9100 3725 1 000728868 9100-051 E 07 0.264 55.19 Spy4H	3729 1 000728872 9100-051 A 08	3744 1 000728887 9100-051 H 09	
7. Cmpd L 3725	3729		
Library 9100	9100	9100	

545.514	504.599	462 63	434.577
C <sub>28</sub> H <sub>37</sub> Br N <sub>2</sub> O <sub>4</sub>	С <sub>30</sub> Н <sub>33</sub> F N <sub>2</sub> О <sub>4</sub>	5 C <sub>29</sub> H <sub>38</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>27</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub>
#NAME?	#NAME?	CH <sub>3</sub>	HOTH HAME?
LionID TR0910002473	H TR0910001973	TR0910001005	TR0910001066
<b>Conc mg/m</b> 0 1776	0.1776	0.1776	0 1776
f Assay Spy4H	Spy4H	Spy4H	Spy4H
Assay Resul 55.19	. 41.	55 08	55.03
Raw Data 0 334	0.28	0.445	0 305
Library Cmpd Lot ExtReg Rate Well Raw Data Assay Result Assay Conc.mg/ml LionID 9100 2473 1 000727616 9100-035 A 11 0 334 55.19 Spy4H 0 1776 TR091	1973 1 000727116 9100-028 E 08	1 000726388 9100-013 E 07	1 000726449 9100-014 B 05
mpd Lot 473 1	973 1	1005 1	1066 1
Library C 9100 2	9100	9100 10	9100

TR0910000863 #NAME?  TR0910001052 #NAME?  TR0910001077 #NAME?  TR0910002006 #NAME?  TR0910002404 #NAME?  C <sub>33</sub> H <sub>37</sub> Cl N <sub>2</sub> O <sub>3</sub> C <sub>30</sub> H <sub>37</sub> Cl N <sub>2</sub> O <sub>3</sub> C <sub>30</sub> H <sub>37</sub> Cl N <sub>2</sub> O <sub>3</sub> TR0910001077 #NAME?  C <sub>30</sub> H <sub>37</sub> Cl N <sub>2</sub> O <sub>3</sub> TR0910002404 #NAME?  C <sub>30</sub> H <sub>37</sub> Cl N <sub>2</sub> O <sub>3</sub> C <sub>30</sub> H <sub>37</sub> Cl N <sub>2</sub> O <sub>3</sub> TR0910002404 #NAME?  C <sub>30</sub> H <sub>37</sub> Cl N <sub>2</sub> O <sub>3</sub>	
#NAME?  #NAME?  #NAME?  #NAME?  #NAME?  #NAME?  #NAME?  #NAME?  #NAME?	
0000863	±z~
	z=l
0.1776 0.1776 0.1776 0.1776	
Spy4H Spy4H Spy4H Spy4H Spy4H	
54.75 54.75 54.68 54.68	
0.419 0.257 0.305	
Library Cmps   Lot ExtReg   Plate   Well   Raw Data Assay Result Assay   Concemplini Library	
9100 1052 9100 1077 9100 206 9100 2404	

.66 .66	583.725	464 602
C <sub>33</sub> H <sub>37</sub> F <sub>3</sub> N <sub>2</sub> O <sub>3</sub>	G <sub>35</sub> H <sub>41</sub> N <sub>3</sub> O <sub>5</sub>	С <sub>28</sub> Н <sub>36</sub> N <sub>2</sub> О <sub>4</sub>
WAME?	#NAME?	#NAME?
н,с. Н,с.	TR0910003758	нсн о, т ТR0910001062
0 1776	0.1776	0.1776
Spy4H	Spy4H	Spy4H
54 38	54.27	54.18
66 89 0	0 285	0.258
:6087 9100-009 H 09	8901 9100-051 F 11	1062 1 000726445 9100-014 F 04
1 00072	1 00072	1 00072
704	3758	1062
9100	9100	9100
	H <sub>3</sub> C-O-H <sub>3</sub> F-F-O-H <sub>3</sub> 704 1 000726087 9100-009 H 09 0 399 54 38 Spy4H 0 1776 TR0910000704 #NAME? C <sub>33</sub> H <sub>37</sub> F <sub>3</sub> N <sub>2</sub> O <sub>3</sub> H <sub>3</sub> C-O-H <sub>3</sub> H <sub>37</sub> F <sub>3</sub> N <sub>2</sub> O <sub>3</sub>	704 1 000726087 9100-009 H 09 0 399 54 38 Spy4H 0 1776 TR0910000704 #NAME? C <sub>33</sub> H <sub>37</sub> F <sub>3</sub> N <sub>2</sub> O <sub>3</sub> H <sub>37</sub> F <sub>3</sub> N <sub>3</sub> O <sub>3</sub> I 000728901 9100-051 F 11 0 285 54.27 Spy4H 0.1776 TR0910003758 #NAME? C <sub>35</sub> H <sub>41</sub> N <sub>3</sub> O <sub>5</sub> E

553.498	508 655	551.08	587.76	
C <sub>28</sub> H <sub>33</sub> Br N <sub>4</sub> O <sub>3</sub>	G <sub>30</sub> H <sub>40</sub> N <sub>2</sub> O <sub>5</sub>	, C <sub>31</sub> H <sub>35</sub> Cl N <sub>2</sub> O <sub>5</sub>	C <sub>38</sub> H <sub>41</sub> N <sub>8</sub> O <sub>3</sub>	$\langle \overline{\ } \rangle$
#NAME?	H, C, N, H,	#NAME?	#NAME?	o National Control of the Control of
ELionID TR0910001694	H TR0910002525	TR0910002742	TR0910002211	Ĭ.
Сопс та/т 0.1776	0.1776	0.1776	0.1776	
f Assay Spy4H	Spy4H	Spy4H	Spy4H	
Well Raw Data Assay Result Assay Conc mg/ml LionID F 03 0.304 54.15 Spy4H 0.1776 TR0910	42	64.06	54 05	
Raw Data 0.304	0.325	0	0.323	
Library Cmpd Lot ExtReg Plate Well 9100 1694 1 000726837 9100-023 F 03	1 000727668 9100-036 E 07	2742 1 000727885 9100-039 F 04	2211 1 000727354 9100-031 C 08	
у Сп <del>р</del> с 1694	2525			
Librar 9100	9100	9100	9100	

539.672	475.629	508.59	498.62	
G <sub>33</sub> H <sub>37</sub> N <sub>3</sub> O <sub>4</sub>	C <sub>29</sub> H <sub>37</sub> N <sub>3</sub> O <sub>3</sub>	C <sub>32</sub> H <sub>29</sub> F N <sub>2</sub> O <sub>3</sub>	C <sub>31</sub> H <sub>34</sub> N <sub>2</sub> O <sub>4</sub>	
#NAME?	#NAME?	HOLL CHA	#NAME?	F. J.
Conc mg/ml LionID 0 1776 TR0910003723	TR0910001069	H TR0910001732	TR0910004396	0.0
<b>Conc mg/m</b> 0 1776	0 1776	0.1776	0.1776	
t Assay Spy4H	Spy4H	Spy4H	Spy4H	,
Assay Resul 53 97	53.90	53.88	53.87	
Raw Data 0.28	0.259	0.333	0.347	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 3723 1 000728866 9100-051 C 07 0.28 53 97 Spy4H	1069 1 000726452 9100-014 E 05	1732 1 000726875 9100-023 D 08	4396 1 000729539 9100-060 D 11	
iry Cmpd				
Libra 9100	9100	9100	9100	

470.61	458.555	533 597	568 633	
C <sub>30</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub>	он С <sub>28</sub> Н <sub>30</sub> N <sub>2</sub> О <sub>4</sub>	C <sub>30</sub> H <sub>32</sub> F N <sub>3</sub> O <sub>5</sub>	, d , d , d , d , d , d , d , d , d , d	н Но
#NAME?	H,C H C H C H C H C H C H C H C H C H C	#NAME?	#NAME?	
LionID TR0910000571	н ТR0910000636	C TR0910003253	FTR0910000708	I
Conc mg/ml 0 1776	0 1776	0 1776	0 1776	
Assay ( Spy4H	Spy4H	Spy4H	Spy4H	
Assay Result 53.80	53.80	53 78	53.71	
Raw Data 0.395	0.278	0 283	0.306	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay. Conc mg/ml LionID 9100 571 1 000725954 9100-008 C 03 0.395 53.80 Spy4H 0 1776 TR091	636 1 000726019 9100-008 D 11	3253 1 000728396 9100-045 E 08	708 1 000726091 9100-009 D 10	
Library Cn 9100 57	9100	9100 32		

517.066	536 672	519 682
C <sub>31</sub> H <sub>33</sub> Cl N <sub>2</sub> O <sub>3</sub>	O <sub>33</sub> H <sub>36</sub> N <sub>4</sub> O <sub>3</sub>	C <sub>31</sub> H <sub>41</sub> N <sub>3</sub> O <sub>4</sub>
#NAME?	HO CHANAME?	#NAME?
Cana mg/ml LionID 0 1776 TR0910002603	TR0910002414	TR0910001949
മഹ <b>ന്നൂ</b> ന്ന് 0 1776	0.1776	0.1776
t Assay Spy4H	Spy4H	Spy4H
Assay Resul 53 70	53. 59	53 49
Raw Data / 0 467	0 258	0.281
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Cond mg/ml LionID 9100 2603 1 000727746 9100-037 C 07 0 467 53 70 Spy4H 0 1776 TR091	2414 1 000727557 9100-035 F 03	1949 1 000727092 9100-028 E 05
t ExtReg 000727746	000727557	000727092
Gmpd Lt 2603 1	2414 1	1949
Library 9	9100	9100

612.561	446 588	591 704	
C <sub>31</sub> H <sub>38</sub> Br N <sub>3</sub> O <sub>5</sub>	C <sub>28</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>36</sub> H <sub>37</sub> N <sub>3</sub> O <sub>5</sub>	
#NAME?	H <sub>3</sub> C H HO NAME?		
LionID TR0910000998	H TR0910000765	H TR0910003756	
<b>Co</b> nc.mg/m 0.1776	0.1776	0.1776	
# Assay Spy4H	Spy4H	Spy4H	
Well Raw Data Assay Result Assay Conc.mg/ml LionID F 06 0.276 53.46 Spy4H 0.1776 TR091	53 41	53 36	
Raw Data 0.276	0 252	0 288	
Plate Well 1 9100-013 F 06	000726148 9100-010 E 07	000728899 9100-051 D 11	
Library Cmpd Lot ExtReg Plate 9100 998 1 000726381 9100-013	1 00072614	1 00072889	
Cmpd 998	765	3756	
Library 9100	9100	9100	

486 584	551.727	589.732	449 591	
C <sub>30</sub> H <sub>31</sub> F N <sub>2</sub> O <sub>3</sub>	C <sub>35</sub> H <sub>41</sub> N <sub>3</sub> O <sub>3</sub>	C <sub>37</sub> H <sub>39</sub> N <sub>3</sub> O <sub>2</sub>	C <sub>27</sub> H <sub>35</sub> N <sub>3</sub> O <sub>3</sub>	
#NAME?	#NAME?	#NAME?	T.	Function of the second
©LionID TR0910003213	но, ТR0910002205	TR0910002236	TR0910000629	1
Conc.mg/ml 0 1776	0 1776	0 1776	0 1776	
Assay (	Spy4H	Spy4H	Spy4H	
Assay Resull 53.24	53.24	53.24	53.22	
Raw Data 0.422	0.27	0.276	0 258	
Library         Cmpd         Lot ExtReg         Plate         Well         Raw Data         Assay         Result         Assay         Conc. mg/fml         LionID           9100         3213         1         000728356         9100-045         E-03         0.422         53.24         Spy4H         0         1776         TR091	2205 1 000727348 9100-031 E 07	2236 1 000727379 9100-031 D 11	1 000726012 9100-008 E 10	
any Cmpd 10 3213			00 629	
910	9100	9100	9100	

474.622		450.576	464.602		591 723	392 496	
C <sub>28</sub> H <sub>30</sub> N <sub>2</sub> O <sub>3</sub> S		С <sub>27</sub> Н <sub>34</sub> N <sub>2</sub> О <sub>4</sub> .он .сн.	C <sub>28</sub> H <sub>36</sub> N <sub>2</sub> O <sub>4</sub>		C <sub>37</sub> H <sub>38</sub> F N <sub>3</sub> O <sub>3</sub>	C <sub>24</sub> H <sub>28</sub> N <sub>2</sub> O <sub>3</sub>	
#NAME?		9	#NAME?	PO T D T D T D T D T D T D T D T D T D T	#NAMF?	#NAME?	J. ZI
LionID TR0910001058	6	TR0910001068 ابندر	TR0910000598	r -	TR0910002573	TR0910001086	Oʻ.
Concing/ml LionID 0 1776 TR091		0.1776	0 1776		0 1776	0.1776	
		Spy4H	Spy4H		Spy4H	Spy4H	
Assay Resul 53.05		53.05	52.93		52.84	52.76	
Raw Data 0.351		0.261	0.264		0.287	0.263	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 1058 1 000726441 9100-014 B 04 0.351 53.05 Spy4H		1068 1 000726451 9100-014 D 05	598 1 000725981 9100-008 F 06		2573 1 000727716 9100-037 E 03	1086 1 000726469 9100-014 F 07	
Library 9100		9100	9100		9100	9100	

448.584	595.779	534.625
C <sub>26</sub> H <sub>26</sub> N <sub>2</sub> O <sub>3</sub> S	C <sub>37</sub> H <sub>45</sub> N <sub>3</sub> O <sub>4</sub>	C <sub>31</sub> H <sub>35</sub> F N <sub>2</sub> O <sub>5</sub>
	#NAME?	#NAME?
Corre mg/mil LionID 0.1776 TR0910001098	TR0910003743	TR0910000812
Conce magnini 0.1776	0.1776	0 1776
Spy4H	Spy4H	Spy4H
Assay Resul 52 76 52 76	52.75	52.70
Raw Data 0 298 0 298	0.347	0.339
Library Cmpd Lot ExtReg Rate Well Raw Data Assay Result Assay 9100 1098 1 000726481 9100-014 B 09 0 298 52 76 Spy4H	3743 1 000728886 9100-051 G 09	812 1 000726195 9100-011 D 03
ot ExtReg 1 00072641	1 0007288	1 0007261
C-mpd 1098		812
Library 9100	9100	9100

529 633		980 769 9	444.528	480 945	
C <sub>31</sub> H <sub>35</sub> N <sub>3</sub> O <sub>5</sub>		C <sub>36</sub> H <sub>44</sub> N <sub>4</sub> O <sub>3</sub>	C <sub>27</sub> H <sub>28</sub> N <sub>2</sub> O <sub>4</sub>	Ö Ž	
#NAME?	To State of the st	#NAMF?	#NAME?	HO LE	P. ZI
LionID TR0910002196	O	TR0910002220 <sub>ಗ್ರ</sub> ಂ	TR0910002437	HC HD00400040757	
<b>ാ</b> ന <i>േന്നു</i> ന്നി 0 1776		0.1776	0 1776	777 A	
Assay ( Spy4H		Spy4H	Spy4H	= P. 6	L t t
Assay Result 52.69		52.69	52 63	й с	- p - p - p - p - p - p - p - p - p - p
Raw Data 0.271		0.269	0 261	c c	n 0 0 0 0
Library Cripid Lot ExtReg Plate Well Raw Data Assay Result Assay Conc.mg/mil LionID 9100 2196 1 000727339 9100-031 D 06 0.271 52.69 Spy4H 0 1776 TR091		2220 1 000727363 9100-031 D 09	2437 1 000727580 9100-035 E 06		2757 1 000727900 9100-039 E 00
Library Cr 9100 2		9100 2:	9100 2		2

486.565	526.472	557.091	571.117	
C <sub>29</sub> H <sub>30</sub> N <sub>2</sub> O <sub>5</sub>	C <sub>27</sub> H <sub>32</sub> Br N <sub>3</sub> O <sub>3</sub>	G <sub>32</sub> H <sub>33</sub> Cl N <sub>4</sub> O <sub>3</sub>	C <sub>33</sub> H <sub>35</sub> Cl N <sub>4</sub> O <sub>3</sub>	
#NAME?	#NAME?	#NAME?	#NAME?	~~~
E LionID TR0910002396	C. C	Н <sub>3</sub> С Н ТR0910002604	N FR0910002614	
and <b>mg/m</b> i 0.1776	0.1776	0.1776	0.1776	
Assay C Spy4H	Spy4H	Spy4H	Spy4H	
ssay Result 52 60	52 55	52.55	52.55	
aw Data 🛕 0 334	0 266	0.267	0 317	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result. Assay Conc.mg/ml LionID 9100 2396 1 000727539 9100-033 D 11 0 334 52 60 Spy4H 0.1776 TR0910	000725612 9100-003 E 10	000727747 9100-037 D 07	2614 1 000727757 9100-037 F 08	
Smpd Lc 2396 1	229 1	2604 1	2614 1	
Library (	9100	9100	9100	

490 684	525.646	567.726
C <sub>31</sub> H <sub>42</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>32</sub> H <sub>35</sub> N <sub>3</sub> O <sub>4</sub>	C <sub>35</sub> H <sub>41</sub> N <sub>3</sub> O <sub>4</sub>
H <sub>3</sub> C H H <sub>3</sub> C H <sub>3</sub>		#NAME?
Well Raw Data Assay Result Assay Conc mg/ml LionID E 04 0.418 52.44 Spy4H 0.1776 TR0910003701	0.1776 TR0910003726	TR0910003755
Sanc mg/ml 0 1776	0.1776	0.1776
C Assay	Spy4H	Spy4H
Assay Resul 52.44	52.44	52.44
Raw Data / 0.418	0 275	0 294
Library Cmpd Lot ExtReg Plate Well f 9100 3701 1 000728844 9100-051 E 04	3726 1 000728869 9100-051 F 07	3755 1 000728898 9100-051 C 11
3701		
<b>C.tbrar</b> . 9100	9100	9100

464.646	452 591	604 669	451.607
C <sub>29</sub> H <sub>40</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>27</sub> H <sub>36</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>34</sub> H <sub>35</sub> F <sub>3</sub> N <sub>4</sub> O <sub>3</sub>	С <sub>27</sub> Н <sub>37</sub> N <sub>3</sub> О <sub>3</sub> он
#NAME?	TI (	#NAME?	Hyor Hoths
LionID TR0910001021	Н <sub>у</sub> с TR0910001027 HO-	TR0910000694	F. F. TR0910000579
Conc.mg/ml LionID 0.1776 TR091	0.1776	0 1776	0.1776
Assay C Spy4H	Spy4H	Sру4H	Spy4H
kssay Resull 52.37	52.37	52.36	52.35
Kaw Data ≠ 0.399	0.28	0 285	0 261
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 1021 1 000726404 9100-013 E 09 0.399 52.37 Spy4H	1027 1 000726410 9100-013 C 10	694 1 000726077 9100-009 F 08	579 1 000725962 9100-008 C 04
Library Cr 9100 10	9100 10	9100	9100

406.523	565.754	511 457	523 67	
C <sub>25</sub> H <sub>30</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>36</sub> H <sub>43</sub> N <sub>3</sub> O <sub>3</sub>	C <sub>27</sub> H <sub>31</sub> Br N <sub>2</sub> O <sub>3</sub>	C <sub>30</sub> H <sub>41</sub> N <sub>3</sub> O <sub>5</sub>	, r HO
#NAME?	HOUSE HOUSE	#NAME?	#NAME?	
LianID TR0910000603	TR0910004123	TR0910000235	TR0910000820	
Concing/ml LionID 0.1776 TR091	0.1776	0.1776	0.1776	
	Spy4H	Spy4H	Sру4H	
Assay Resul 52.35	52.30	52 25	52.16	
Raw Data 0.269	0.289	0.485	0.272	
Library Cnipd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 603 1 000725986 9100-008 C 07 0.269 52.35 Spy4H	4123 1 000729266 9100-057 C 07	1 000725618 9100-003 C 11	1 000726203 9100-011 D 04	
Library Cript 9100 603	9100 4123	9100 235	9100 820	
	<del></del>	•		

546 064	491.028	582 741	463 618
C <sub>31</sub> H <sub>32</sub> Cl N <sub>3</sub> O <sub>4</sub>	C <sub>29</sub> H <sub>31</sub> Cl N <sub>2</sub> O <sub>3</sub>	G <sub>35</sub> H <sub>42</sub> N <sub>4</sub> O <sub>4</sub>	С <sub>28</sub> Н <sub>37</sub> N <sub>3</sub> О <sub>3</sub>
#NAME?	#NAME?	#NAME? Q	#NAME?
LionID TR0910000841	0 € TR0910000872	TR0910003740	H <sub>3</sub> C TR0910000580 H <sub>3</sub> C,
Cana mg/ml 0.1776	0.1776	0 1776	0.1776
: <b>Assay</b> ( Spy4H	Spy4H	Spy4H	S H 4yq
Assay Result 52 16	52 16	52. 14	52.06
Raw Data 0.354	0.406	0 275	0.263
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc mg/ml LionID 9100 841 1 000726224 9100-011 A 07 0.354 52 16 Spy4H 0.1776 TR0910	1 000726255 9100-011 H 10	3740 1 000728883 9100-051 D 09	1 000725963 9100-008 D 04
Cmpd 841	872	3740	280
Library 9100	. 6100	9100	9100

446.548	554 606	562.589	446 519
C <sub>26</sub> H <sub>30</sub> N <sub>4</sub> O <sub>3</sub>	C <sub>31</sub> H <sub>33</sub> F <sub>3</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>31</sub> H <sub>29</sub> F <sub>3</sub> N <sub>4</sub> O <sub>3</sub>	С <sub>27</sub> Н <sub>27</sub> F N <sub>2</sub> О <sub>3</sub> он
#NAME?	HO LE	#NAME?	HZ WAME OF THE TOTAL PROPERTY OF THE TOTAL P
LionID TR0910000604	TR0910000707	TR0910004084	TR0910000733
<b>്രം</b> നം <b>ന്നു</b> /ന്നി 0 1776	0.1776	0.1776	0 1776
Assay Spy4H	Spy4H	Spy4H	Spy4H
Assay Resu 52.06	52.02	52 02	51 92
Raw Data 0 261	0.306	0.264	0.253
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc.mg/ml LionID 9100 604 1 000725987 9100-008 D 07 0 261 52.06 Spy4H 0 1776 TR091	707 1 000726090 9100-009 C 10	4084 1 000729227 9100-057 D 02	1 000726116 9100-010 E 03
ot ExtReg 1 0007259	1 0007260	1 0007292	1 000726
Cmpd 604	707	4084	733
Library 9100	9100	9100	9100

462.611	422.566	424 538	390 48	
C <sub>27</sub> H <sub>30</sub> N <sub>2</sub> O <sub>3</sub> S	C <sub>26</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>25</sub> H <sub>32</sub> N <sub>2</sub> O <sub>4</sub>	он С <sub>24</sub> H <sub>26</sub> N <sub>2</sub> O <sub>3</sub>	
#NAME?	H, C,	Hoth Hoth Ch	#NAME?	DIZ I
LionID TR0910000578	TR0910000586	TR0910000628	TR0910000630	1
Conc mg/ml 0 1776	0.1776	0.1776	0.1776	
l Assay Spy4H	Spy4H	Spy4H	Spy4H	
Assay Resul 51 77	51 77	51.77	51.77	
Raw Data 0 334	0 301	0.263	0.264	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Cond mg/ml LionID 9100 578 1 000725961 9100-008 B 04 0 334 51.77 Spy4H 0 1776 TR0910000578	586 1 000725969 9100-008 B 05	628 1 000726011 9100-008 D 10	1 000726013 9100-008 F 10	
Lot ExtReg 1 000725	1 000725	1 000726	1 000726	
Cmpd 578	986	628	930	
Library 9100	9100	9100	9100	

527.445	485.419	550.618	507.671	
C <sub>28</sub> H <sub>28</sub> Gl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>25</sub> H <sub>29</sub> Br N <sub>2</sub> O <sub>3</sub>	C <sub>32</sub> H <sub>33</sub> F <sub>3</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>30</sub> H <sub>41</sub> N <sub>3</sub> O <sub>4</sub>	
#NAME?	#NAME? .	Ę,	# # WAME?	ਸੂੰ 2-0
LionID   TR0910002977	HR0910001695	TR0910000683	TR0910001939 H <sub>3</sub> C	
Concingfini LionID 0 1776 TR091	0.1776	0 1776	0.1776	
t Assay Spy4H	Spy4H	Spy4H	Spy4H	
Assay Resul 51 75	51.74	51.69	51.58	
Raw Data 0.341	0.442	0.546	0.287	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 2977 1 000728120 9100-042 A 04 0.341 5175 Spy4H	1695 1 000726838 9100-023 G 03	683 1 000726066 9100-009 C 07	1939 1 000727082 9100-028 C 04	
Library 9100	9100	9100	9100	

528.645	434.577	533.709	608 822	
C <sub>32</sub> H <sub>36</sub> N <sub>2</sub> O <sub>5</sub>	C <sub>27</sub> H <sub>34</sub> N <sub>2</sub> O <sub>3</sub>	လ နို ၁	C <sub>38</sub> H <sub>48</sub> N <sub>4</sub> O <sub>3</sub>	
#NAME?	#NAME?	#NAME?		
LionID TR0910001956	Н <sub>2</sub> С	ZR0910002349		
Conc mg/ml 0 1776	0 1776	0 1776	0.1776	
t Assay Spy4H	Spy4H	N 14>0	Spy4H	
Well Raw Data Assay Result Assay Conc mg/mi LionID 3 D 06 0 29 51 58 Spy4H 0 1776 TR091	51.56	5148	51.46	
Raw Data 0 29	0.352	66 67 67	0.273	
Library Cmpd Lot ExtReg Plate Well 9100 1956 1 000727099 9100-028 D 06	1015 1 000726398 9100-013 G 08	9349 1 000727492 9100-033 F 05	1 000729265 9100-057 B 07	
Cmpd Lot 1956 1	1015 1	23.40	4 122 1	
Ltbrany 9100	9100	Ş		

	548.651	514 461	600.55
	С <sub>32</sub> Н <sub>37</sub> F N <sub>2</sub> О <sub>5</sub>	C <sub>26</sub> H <sub>32</sub> Br N <sub>3</sub> O <sub>3</sub>	C <sub>30</sub> H <sub>38</sub> Br N <sub>3</sub> O <sub>5</sub>
	#NAME?	#NAME?	#NAME?
Claci	TR0910002532	TR0910000219 الباد الباد	TR0910000982
tayou buo	0.1776	0.1776	0.1776
Accay	Spy4H	Spy4H	Sру4H
Cond Head	51.44	51.33	51.29
Dawi Pada - Access Bacoll - Access - Construction	0.323	0.265	0 58
- 33	Library Cmpd Lot Exircing Hate Vveling 9100 2532 1 000727675 9100-036 D 08	219 1 000725602 9100-003 C 09	982 1 000726365 9100-013 F 04
Ĺ	000 T	000	000
	2532 2532	219	885
	9100	9100	9100

571.714		569 526	498 62	448.56	
C <sub>34</sub> H <sub>41</sub> N <sub>3</sub> O <sub>5</sub>		С <sub>31</sub> Н <sub>34</sub> СІ <sub>2</sub> N <sub>2</sub> О <sub>4</sub>	C <sub>31</sub> H <sub>24</sub> N <sub>2</sub> O <sub>2</sub>	C <sub>27</sub> H <sub>32</sub> N <sub>2</sub> O <sub>4</sub>	
#NAME?		#NAME?	HNAME?	#NAME?	Z
LionID TR0910003742	·	н <sub>ус</sub> ТR0910002982 <sub>Нэ</sub> с	TR0910001758	TR0910002365	
onc mg/ml 0 1776		0.1776	0 1776	0.1776	,
Assay C Spy4H		Ѕру4Н	Sру4H	Spy4H	
Assay Result 51.22		51.21	51.20	51.19	
Raw Data 0.276		0.438	0 298	0.34	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc mg/mi LionID 9100 3742 1 000728885 9100-051 F 09 0.276 51.22 Spy4H 0 1776 TR0910		2982 1 000728125 9100-042 F 04	1758 1 000726901 9100-023 F 11	2365 1 000727508 9100-033 E 07	
Library Cm 9100 374		9100 298	9100 178	9100 236	

438.565	449 591	541.472	475 629	537 7	
С <sub>26</sub> Н <sub>34</sub> N <sub>2</sub> О <sub>4</sub> Он	G <sub>27</sub> H <sub>35</sub> N <sub>3</sub> O <sub>3</sub>	C <sub>29</sub> H <sub>30</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>	С <sub>29</sub> Н <sub>37</sub> N <sub>3</sub> О <sub>3</sub> .он .сн	C <sub>34</sub> H <sub>39</sub> N <sub>3</sub> O <sub>3</sub>	
#NAME?	#NAME? #NAME?	#NAME?	NAME?	#NAME?	
LionID   TR0910000588   H <sub>3</sub> C	TR0910000620 اب <sub>غ</sub> ر	TR0910002519	TR0910001060	TR0910002203	Ġ
Cons.mg/mil LionID 0 1776 TR091	0.1776	0.1776	0.1776	0.1776	
	Ѕру4Н	Spy4H	Spy4H	Sру4H	
say Result 51 19	5. 0.	51.17	51.06	51 06	
Raw Data A	0 264	0.383	0.269	0 277	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay 9100 588 1 000725971 9100-008 D 05 0.267 51 19 Spy4H	1 000726003 9100-008 D 09	1 000727662 9100-036 G 06	000726443 9100-014 D 04	2203 1 000727346 9100-031 C 07	
mpd Lt	620 1	2519 1	1060	203 1	
Library C 9100 1	9100	9100 2	9100	9100	

536 644	529.515	582.535	489.407
C <sub>34</sub> H <sub>33</sub> F N <sub>2</sub> O <sub>3</sub>	C <sub>26</sub> H <sub>37</sub> Br N <sub>2</sub> O <sub>3</sub>	C <sub>30</sub> H <sub>36</sub> Br N <sub>3</sub> O <sub>4</sub>	C <sub>24</sub> H <sub>29</sub> Br N <sub>2</sub> O <sub>4</sub>
#NAME?	#NAME?	#NAME?	#NAME?
ELionID TR0910002413 F	TR0910002466	TR0910000965	TR0910001697
one:mg/ml	0 1776	0 1776	0 1776
Assay Co Spy4H	Ѕру4Н	Spy4H	Spy4H
Assay Result . 51.02	51.02	51 02	00 46
aw Data 0.49	0 394	0.337	0 363
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conormgfmi LionID 9100 2413 1 000727556 9100-035 E 03 0.49 51.02 Spy4H 0 1776 TR0910	2466 1 000727609 9100-035 B 10	965 1 000726348 9100-013 E 02	1697 1 000726840 9100-023 A 04
Library (	9100	9100	9100

527.5	496 644	524.701	557 687	
C <sub>28</sub> H <sub>35</sub> Br N <sub>2</sub> O <sub>3</sub>	C <sub>29</sub> H <sub>40</sub> N <sub>2</sub> O <sub>5</sub>	С <sub>34</sub> Н <sub>40</sub> N <sub>2</sub> О <sub>3</sub> он сн,	C <sub>33</sub> H <sub>39</sub> N <sub>3</sub> O <sub>5</sub>	
#NAME?	#NAME?	Æ Å	#NAME?	
0001715	TR0910003033	TR0910003691	TR0910003748	
ono mg4ml 0 1776	0.1776	0 1776	0 1776	
Assay C Spy4H	Spy4H	Spy4H	Spy4H	`
Raw Data Assay Result Assay Conormatrii LionID 0.557 50.94 Spy4H 0.1776 TR0910	50.94	50.92	50.92	
aw Data 0.557	0.445	0.457	0.275	
Library Cmpd Lot ExtReg Plate Well Ri 9100 1715 1 000726858 9100-023 C 06	3 1 000728176 9100-042 A 11	31 1 000728834 9100-051 C 03	3748 1 000728891 9100-051 D 10	
Library Cmpd 9100 1715	9100 3033	9100 3691	9100 37	

488.556	392 496	448.584	460.614
C <sub>29</sub> H <sub>29</sub> F N <sub>2</sub> O <sub>4</sub>	C <sub>24</sub> H <sub>28</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>26</sub> H <sub>28</sub> N <sub>2</sub> O <sub>3</sub> S	C <sub>29</sub> H <sub>36</sub> N <sub>2</sub> O <sub>3</sub>
#NAME?	#NAME?	-Z =0 4 X	HNAME?
Raw Data Assay Result Assay Cork mg/mit LionID 0.351 50.91 Spy4H 0.1776 TR0910002373	TR0910000606	TR0910000618	TR0910002795
oncimg/mil 1 0.1776 .	0 1776	0.1776	0.1776
Assay C Spy4H	Spy4H	Spy4H	Spy4H
kssay Result 50.91	50.90	20 90	50.87
(aw Data A	0.266	0 291	0.392
Library Cmpd Lot ExtReg Plate Well R 9100 2373 1 000727516 9100-033 E 08	1 000725989 9100-008 F 07	1 000726001 9100-008 B 09	1 000727938 9100-039 C 11
Cmpd Lu 2373 1	909	618	2795
Library 9100	9100	9100	9100

549.107	390.48	502.626	539.672	
G <sub>32</sub> H <sub>37</sub> Cl N <sub>2</sub> O <sub>4</sub>	G <sub>24</sub> H <sub>26</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>31</sub> H <sub>35</sub> F N <sub>2</sub> O <sub>3</sub>	C <sub>33</sub> H <sub>37</sub> N <sub>3</sub> O <sub>2</sub>	
#NAME?	#NAME?	#NAME?	#NAME?	
LionID TR0910002622 <sub>H₃</sub> c <sup>−−</sup>	TR0910001110	TR0910001012	TR0910002401	
onc mg/ml ใ	0 1776	0.1776	0 1776	
Assay Co	Spy4H	Spy4H	Spy4H	
Raw Data Assay Result Assay Conc mg/mil LionID 0.377 50.83 Spy4H 0.1776 TR0910	50 78	50 75	50.70	
aw Data 0.377	0.272	0.517	0.33	
Library Cmpd Lot ExtReg Plate Well Ro 9100 2622 1 000727765 9100-037 F 09	1 000726493 9100-014 F 10	1012 1 000726395 9100-013 D 08	2401 1 000727544 9100-035 A 02	
Cmpd U	1110			
Library 9100	9100	9100	9100	

484.636	503 434	522 682	408.539	
C <sub>31</sub> H <sub>36</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>25</sub> H <sub>31</sub> Br N <sub>2</sub> O <sub>4</sub>	. C <sub>31</sub> H <sub>42</sub> N <sub>2</sub> O <sub>5</sub>	C <sub>25</sub> H <sub>32</sub> N <sub>2</sub> O <sub>3</sub>	
#NAME?	#NAME?	#NAME?	#NAME?	T ZI ZI T
# LionID TR0910002426	н <sub>у</sub> с Н	TR0910002342	TR0910000626	I
onc mg/ml 0 1776	0.1776	0.1776	0.1776	
Assay C Spy4H	Spy4H	Spy4H	Spy4H	
tssay Result 50 70	50.67	50 63	50.62	
≷aw Data A 0 324	0.338	0.32	0.284	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc mg/mil LionID 9100 2426 1 000727569 9100-035 B 05 0 324 50 70 Spy4H 0 1776 TR091	1687 1 000726830 9100-023 G 02	2342 1 000727485 9100-033 F 04	626 1 000726009 9100-008 B 10	
f ExtReg 000727569	00072683	00072748	00072600	
Cmpd Lc 2426 1	1687 1	2342 1	626 1	
Library 9100	9100	9100	9100	

501 58	432.561	523.673	438.565	466.578	
C <sub>29</sub> H <sub>31</sub> N <sub>3</sub> O <sub>5</sub>	C <sub>27</sub> H <sub>32</sub> N <sub>2</sub> O <sub>3</sub>	C <sub>33</sub> H <sub>37</sub> N <sub>3</sub> O <sub>3</sub>	C <sub>26</sub> H <sub>34</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>30</sub> H <sub>30</sub> N <sub>2</sub> O <sub>3</sub>	
#NAME?	#NAME?	#NAME?	#NAME?	#NAME?	TO T
LionID TR0910003757	O O O O TR0910002763	Ho- TR0910002206	TR0910001102	TR0910002430	
2 <b>o</b> na mg/ml 0 1776	0.1776	0 1776	0.1776	0.1776	
Assay C Spy4H	Spy4H	Sру4H	Spy4H	Sру4H	
Assay Result 50 61	50.58	50.51	50.50	50.38	
Raw Data 0.272	0 322	0.277	0.271	0.288	
Library Cripd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc mg/mil LionID 9100 3757 1 000728900 9100-051 E 11 0.272 50 61 Spy4H 0 1776 TR0910	2763 1 000727906 9100-039 C 07	2206 1 000727349 9100-031 F 07	1102 1 000726485 9100-014 F 09	2430 1 000727573 9100-035 F 05	
Library ( 9100	0016	9100	9100	9100	

512.525		577.725	568.758	463 618	449 591
C <sub>28</sub> H <sub>27</sub> F <sub>3</sub> N <sub>2</sub> O <sub>4</sub>		C <sub>35</sub> H <sub>39</sub> N <sub>5</sub> O <sub>3</sub>	C <sub>35</sub> H <sub>44</sub> N <sub>4</sub> O <sub>3</sub>	С <sub>28</sub> Н <sub>37</sub> N <sub>3</sub> О <sub>3</sub> он сен,	C <sub>27</sub> H <sub>35</sub> N <sub>3</sub> O <sub>3</sub>
#NAME?	£ £	#NAME?	Hyc. Hys. Hys. Hys. Hys. Hys. Hys. Hys. Hys	H <sub>3</sub> C CH <sub></sub>	HOLH HOLD OH
LionID TR0910000717	Ŷ.	TR0910002204	TR0910002219 <sub>H,C</sub> H <sub>3</sub> c	TR0910001059	TR0910001109
.onc mg/ml 0.1776	ł	0 1776	0.1776	0 1776	0.1776
Assay ( Spy4H		Spy4H	Sру4Н	Spy4H	Зру4H
ssay Result 50 34		50.24	50.24	50.21	50.21
kaw Data 🔌 0.252		0 278	0.282	0.273	0.273
Ubrary Cripid Lot ExtReg Plate Well Raw Data Assay Result Assay Condingfill LionID 9100 717 1 000726100 9100-009 E 11 0.252 50.34 Spy4H 0.1776 TR091		1 000727347 9100-031 D 07	2219 1 000727362 9100-031 C 09	1 000726442 9100-014 C 04	1109 1 000726492 9100-014 E 10
Lot GO		- 0	- 0	00	1 00
Cmpd 1 717		2204	2219	1059	109
Library ∃ 9100		9100	9100	9100	0000

466 618	622 56	485.419	619 561
C <sub>28</sub> H <sub>38</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>31</sub> H <sub>35</sub> Br N <sub>5</sub> O <sub>4</sub>	C <sub>25</sub> H <sub>29</sub> Br N <sub>2</sub> O <sub>3</sub>	C <sub>36</sub> H <sub>33</sub> Cl <sub>2</sub> F N <sub>2</sub> O <sub>3</sub>
#NAME?		E E	** NAME?  ** NAM
LionID TR0910001981	TR0910000974	TR0910001686	TR0910002493
onc mg/ml 0 1776	0.1776	0 1776	0 1776
Assay C Spy4H	Sру4H	Spy4H	Spy4H
Assay Result 50.21	50.20	50 13	50 10
taw Data ≠ 0.283	0.28	0.427	0.532
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc mg/ml LionID 9100 1981 1 000727124 9100-028 E 09 0.283 50.21 Spy4H 0 1776 TR091	974 1 000726357 9100-013 F 03	1686 1 000726829 9100-023 F 02	2493 1 000727636 9100-036 E 03
Library 9100	9100	9100	6000

424.538	498 616	582.741	
C <sub>25</sub> H <sub>32</sub> N <sub>2</sub> O <sub>4</sub>	C <sub>28</sub> H <sub>38</sub> N <sub>2</sub> O <sub>6</sub>	s C <sub>35</sub> H <sub>42</sub> N <sub>4</sub> O <sub>4</sub>	
#NAME?	#NAME?	#NAME?	
LionID TR0910000587	TR0910000828	TR0910003749	r <sup>r</sup>
.anc mg/ml 0 1776	0.1776	0.1776	
Assay C Spy4H	Spy4H	Spy4H	
Assay Result 50.04	20 00	50.00	
Raw Data 0 273	0 28	0.28	
Library Cmpd Lot ExtReg Plate Well Raw Data Assay Result Assay Conc.mg/ml LionID 9100 587 1 000725970 9100-008 C 05 0 273 50.04 Spy4H 0 1776 TR0910000587	828 1 000726211 9100-011 D 05	3749 1 000728892 9100-051 E 10	
Library Cir 9100 58	9100 83	9100 3.	